



INSIDE GARAGEBAND P.39
Our pro musicians review Apple's easy-to-use music maker.



IS iLIFE WORTH \$49? P.37
We test the newest iApps. There's good news and bad news.

92
APR
2004

MacAddict

A BETTER MACHINE. A BETTER MAGAZINE.

33

**THINGS YOU DIDN'T
KNOW YOUR MAC
COULD DO**

(our best tips guide—ever!)

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Reveal the
Hidden Secrets of:**

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Voice Control
Photoshop
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Music
Email
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TAX SOFTWARE SHOWDOWN

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to save money at tax time

6TH ANNUAL APRIL FOOLS' PRANKFEST!

13 ways to trick your friends
and infuriate your enemies

REVIEWED!



In-Ear Headphones p.47



5-Megapixel SLR p.40



Topographical Maps p.44



Indiana Jones p.49



Software Synth p.42



FireWire Webcam p.46

And Many More...

HOW TO:

→ **Replace
an iPod
Battery**

→ **Learn Pro 3D
Using Software
on Our CD**

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into a Radio TiVo**



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04>

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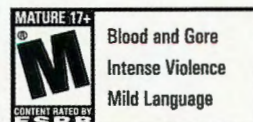
We introduce: the Unreal® Tournament range of vehicles. Just one of the massive new additions that comes standard with the 2004 edition. Pleasing to the eye, powerful to the touch, punishing to the enemy.



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2004 LEVIATHAN
shown with optional xenon headlights.

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The New Unreal Tournament.

Land	SCORPION	4X4	Subwoofer	Gear Ratios: -0.5, 0.4, 0.65, 0.85, 1.1
	AW-X	20.0L	6 Airbags	AKA "GOLIATH." Chassis Dimensions: 27.2 x 10.2 x 5.6 ft
	Liandri DH-85	4x4	Air Conditioning	S-73 'SkyMine' anti-personnel and G87f anti-aircraft turret
	LEVIATHAN	Diesel	All Season Floor Mats	The family transport (seats 6). "Visit" the enemy base...
Air	J-1280G Raptor	Attack	4 gyroscopic cup-holders	Automatic quantum-phased disruption bolt launcher
	MANTA	Hovercraft	In-door Med-Kit	0-40 MPH: 1.6 seconds. Top speed: 115.2 MPH
Space	FIGHTER H.	Undisclosed	Trunk Organizer	18-way power seat fits one humanoid comfortably
	FIGHTER SK.	Undisclosed	Xenon Lights	For the most demanding alien warrior

Models

			
SMOG GRAY	REBEL RED	SUNRISE BLACK	BLACK 'n' BLUE
			
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Colors

All options are subject to change.



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\$10 discount available for 2003 model owners via mail-in rebate with proof of purchase.



features

14 33 Things You Didn't Know Your Mac Could Do

Your Mac is packed with power that often goes untapped. From the simplest of shortcuts to the most-hidden features, we show you even more cool stuff you can do with your Mac.

by Dave Hamilton

26 Take the Pain out of Taxes

Even worse than a dateless Valentine's Day is that lurking April 15th deadline. Take the pain out of taxes by letting your Mac do the calculating. (Sorry, you still have to write the check.)

by Cathy Lu

30 6th Annual Prankfest!

Get your evil laugh ready—we've got 10 brand-new April Fools' pranks (for Macs and Windows), plus a few oldies-but-goodies.

by Jack Miller

how to

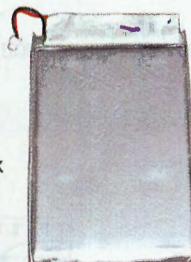
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Resize disk images, give old MIDI cables new life, bridge your AirPort networks, and view AVI video in QuickTime. Plus, cool Terminal shortcuts.

54 Replace an iPod Battery

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by Kris Fong

**56 Automate Radio Stream Recordings**

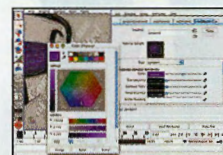
Work, sleep, and spousal commitments all interfere with catching your favorite Internet radio shows. No longer. Here's how to create a pseudo-TiVo for your favorite MP3 streams.

by Paul Yoon

58 Model 3D Objects in Maya PLE

You can have it all—a Porsche, a mansion by the sea—if you can build it. Virtually, that is. We've got Maya 5 PLE on the Disc—take our crash course in 3D modeling.

by Kris Fong



MacAddict

every month

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Now that Kodak's giving up on film cameras, our editor reminisces about other products that have gone slip slidin' away.

08 Get Info

Apple rocks steady with an expanding line-up of audio software, but what's the grand plan for our favorite Mac daddy? Olympus takes it to 8 megapixels. There's a new media player on the scene. Gadgets land in Las Vegas. A teacher drops four grand on a Mac lab. Plus, tons and tons of new games.

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51 The Hot List

We'd spend our own hard-earned money on these products.

QUICK TIPS

FROM THIS MONTH'S ISSUE

➔ TRUST NO ONE

In Panther's Disk Utility, you now have the option to *really* delete your disk

data by rewriting your disk—either with zeros or eight times over with random data (great news for the truly paranoid). From “33 Things You Didn't Know Your Mac Could Do,” p14.

➔ DAMAGE CONTROL

When prying apart your iPod, it's tempting to twist the screwdriver in the process—but don't. Keep the head flat and use an up and down motion to pry the silver backing from the face. From “Replace an iPod Battery,” p54.

➔ JIVE TALKIN'

On April Fools' Day, it's great fun to drive your victims nuts by giving them a new jive (or other dialect) version of their home page. Just use Dialectizer (www.rinkworks.com/dialect). From “6th Annual Prankfest!” p30.

➔ STICK IT IN YOUR EAR

If your Apple In-Ear Headphones sound muted, there's a good chance you've jammed them too far into your ears, thus pinching the ear caps and obscuring the sound. Try one of the other cap sizes Apple offers. From *Reviews*, p47.



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78 Letters

Apple sneakers, whiny Macs, catastrophic Terminal commands, and a touching iChanukah moment. Sniff, sniff.

79 Contest

Win a whopping \$3,839 worth of Avid and Digidesign pro audio and video equipment.

80 Shut Down

Apple's latest product announcements lead to a flurry of activity at the White House and the RIAA.

Execs fly
coops to nest
in cardboard
boxes.

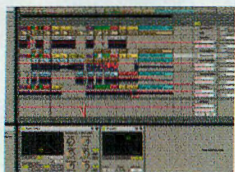


on the disc

Doggiebox, googol-Choo-Choo 3D, Chicken of the VNC, Burning Monkey Casino—it may sound like this month's Disc was produced by the Department of Funny Names, but trust us: This pack of 43 applications—including 14 audio apps—will make you more creative and productive, and it will put a big ol' grin on your face to boot.

Live 3.0.2 demo

Ableton's Live has audio-editing powers that Apple's GarageBand can only dream about.



ToySight 1.01 demo

Here's a whole new way of controlling your games—wave your hands at your Webcam.



Business Card Composer 2 demo

Job hunting? Use this app to promote yourself as CEO of Worldwide Whatever.



on the Disc

AUDIO & MUSIC

Audio Hijack 2.0.3
Audio Hijack Pro 1.2.6
Disco (Classic) 2.3
Disco (OS X) 2.3
Doggiebox 1.0.6
GrooveMaker 2.5 demo
iPodRip 3.0.2
Live (OS 9) 3.0.2 demo
Live (OS X) 3.0.2 demo
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SignalSuite 1.0

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CronniX 2.1i
DiskTracker (Classic) 2.3
DiskTracker (OS X) 2.3
iTunes Publisher 3.1.1
MacJanitor 1.2.1
Snapz Pro X 2.0
WakeUp 1.11
Xpod 1.3.6

Staff Video: Hi-Yo, Blue-and-White!

Follow MacAddict's intrepid reviews editor, Niko Coucouvanis, on his daily commute through the streets of San Francisco aboard his trusty Blue-and-White Power Mac G3.



UPGRADE

If you don't receive the Disc with your copy of MacAddict, you might want to consider upgrading. Each monthly disc contains cool demos, useful shareware and freeware, and the inimitable MacAddict Staff Video. To get 12 issues of MacAddict that include this value-packed disc with your subscription (prorated if necessary) for just \$1 more per issue, call 888-771-6222—the operator will take care of everything.

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Time Marches On



It's the end of an era. And that's OK. On January 13, Kodak announced it would stop shipping "reloadable 35mm cameras in the U.S., Canada, and Western Europe by the end of 2004."

The digital camera has won. Sure, Kodak will continue to make film and sell its 35mm cameras in "emerging markets, such as China, India, Eastern Europe, and Latin America," but the handwriting is on the wall: As a consumer medium, film is on its way out. Sure, good ol' chemical imaging has its fans—

and for good reasons—but for most consumers, moving to the

quality, convenience, and cost-savings of digital imaging is a no-brainer. As I watch film cameras go slip slidin' away, I can't help but think of the many other products and technologies that have either dropped into the dustbin of consumer history or fallen behind more-attractive competitors. The proverbial buggy whip, of course, became the archetype of this evolution when the automobile forced Old Nellie and her concomitant accessories into retirement. The list of other now-obsolete products—or products that survive only in relative obscurity after once enjoying fame and fortune—is nearly infinite.

Here are a few that pop to mind—in alphabetical order, so as not to play favorites: 5- and 8-inch floppy disks, 8-track tape, ADB, the Apple II, the Apple III, AUI connectors, baby moon hub caps, bell-bottoms, Beta cassettes, *Byte Magazine*, Calvin and Hobbes, carbon paper, carburetors, cartoon Max, Chatty Cathy, chrome rims, circular

typewriter erasers with green plastic brushes, column-mounted stick shifts, daisy-wheel printers, Dinky Toys, ditto machines (ah, the aroma!), the eMate 300, fedoras, Flav-R Straws, the Frito Bandito, garter belts, girdles, high-rise windows that open, homburg hats, Ice Cream Jones

and his Ice Cream Cones, inner tubes (in tires, not on water slides), Laserdiscs, the LaserWriter, leisure suits, the Lisa, LocalTalk, *MacToday*, *MacUser*, *MacWeek*, mimeograph machines, monochrome and grayscale monitors, Nehru jackets, the Newton, Pee-Chee folders, Pixy Stix, push-button automatic transmissions, the QuickTake camera, rabbit-ear antennae, Red Man—chewing ballplayers, red-and-black cloth typewriter ribbons, roller skates (as opposed to blades), Sea Monkeys toys, transistor radios, VHF and UHF TV knobs, wide whitewall tires, the wishbone offense, and Zip and Jaz disks.

Film cameras are in good company. None of their fellow retirees, however, inspire nostalgia in me quite as much as those candy dots that came on rolls of white paper that—Narasu tells me—were banned because of an urban myth that evil hippies replaced the dots with LSD on Halloween, and passed 'em out to unsuspecting kiddies.

What do you miss? Let us know at letters@macaddict.com.

Enjoy,

R.k

As a consumer medium, film is on the way out.

STAFF RANTS

Q. What extinct product or technology do you miss?



Mark Rosenthal CREAM PUFF

What extinct product or technology do you miss? Oh, how I long for Space Food Sticks. What other snack could plug a hole in a shoe? Oh, what I'd give for a couple of Space Food Sticks and a good after-school episode of *Dark Shadows*! Not to be. Remember the words of Martin Luther: "Come unto me ye all who are weary, and I shall pass out a bunch of Space Food Sticks."



Niko Coucouvanis WANNABE GREASE MONKEY

What extinct product or technology do you miss? Self-serviceable cars. The old fuel-line-to-carburetor-to-engine setup was simple to tinker with, but today's cars have enough vacuum tubing and electronic crap under the hood to stymie any backyard mechanic.



Jenifer Morgan WHIRLING DERVISH

What extinct product or technology do you miss? Kenner's Spirograph. Computer-generated graphics have more precision and continuity, but there was something deeply satisfying about creating vibrant geometrical orbs with cheap color-ink pens and plastic rings.



Peter Marshutz ON ETERNAL HOLD

What extinct product or technology do you miss? Free tech support. Nothing's worse than hearing, "The estimated wait time is 45 minutes," and then having to pay \$25 per question.



Cathy Lu CATHY LU-DDITE

What extinct product or technology do you miss? I miss the absence of technology. The days when I could go to the gym or restroom (seriously) and not have to listen to some dude or chick yakking on their cell phone.



Kris Fong STEAMED

What extinct product or technology do you miss? Cheap coffee. Ever since Starbucks and other caffeine elitists brainwashed millions into thinking that it's OK to pay two to three bucks for a small cup of burnt bean wash, I haven't seen a sub-\$1 cup o' joe.



Narasu Rebbapragada TAPE WORM

What extinct product or technology do you miss? The cassette player in my car—but I don't *really* miss it because I still use it.



Max STILL GRIEVING SIX YEARS LATER

What extinct product or technology do you miss? The Newton. I blame Bart Simpson and Mike Doonesbury, who trashed the original Newton's handwriting recognition but didn't come back and say sorry after it improved in later versions. You just can't trust cartoon characters.

coming soon: may 2004

Here's what our editors are preparing for the next issue of *MacAddict*.

Apple's iApps may be easy as pie to use, but there's a lot of untapped power hiding behind their shiny Aqua interfaces—so we're going to show you how to **unlock all the power of iLife '04**. Senior editor and pro musician Kris Fong will also show you how to **create your own home music studio** and how to **bend GarageBand to your creative will**. We've also got tips on **Final Cut Pro**, the latest in laptop fashion, more **new-product reviews** than you can shake a stick at, ways to **hack and cheat your way through top Mac games**, and how to **make a stop-motion movie using any digital camera**.

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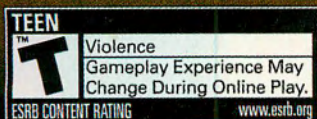
America's military leader must use the world's most advanced military to root out an elusive foe. Eradicating the cell-based GLA will take courage, conviction, and the will to see a prolonged campaign through to the end.



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APPLE'S NEW GROOVE

GarageBand Tightens the Mac's Grip on the Music Biz

First came iTunes. Then the iPod. Next, Apple acquired Emagic's Logic pro audio software and revamped digital downloads with iTunes Music Store. Now, Apple expands the Logic pro lineup and introduces an entry-level music-creation app called GarageBand.

Apple wants to be your go-to company for recording music, editing music, playing music, selling music, buying music, and carrying music around wherever you go. Is this an overzealous vertical plunge into the audio industry or just a logical extension of Apple's digital-hub strategy?

WHAT'S GARAGEBAND?

The buzz right now surrounds GarageBand, the entry-level audio recording and editing application bundled with iLife '04 (\$49, www.apple.com; see our review on p37). GarageBand comes preloaded with high-quality loops and instruments that you can further expand with the GarageBand Jam Pack (\$99). JamPack contains an additional 2,000 loops, 100 software instruments, and 15 guitar amps.

GarageBand isn't a replacement for Pro Tools, Logic, Digital Performer, or anything else a recording studio might use. A source—who wishes to remain anonymous—at Fantasy Studios in Berkeley, California, which has recorded the likes of Aerosmith, B.B. King, and Santana, scoffed at our interest in GarageBand, saying, "It's like somebody writing an article on an Etch A Sketch. We don't play with home toys."

WHO USES GARAGEBAND?

GarageBand is a springboard for beginning musicians. "I think it's a pretty good entry into the professional world. The quality of what's there is high enough that sonically you can produce some pretty good stuff," says Adam Cohen, senior director of marketing at Sweetwater (www.sweetwater.com), a direct-mail music equipment retailer.

It's also a springboard to the Mac

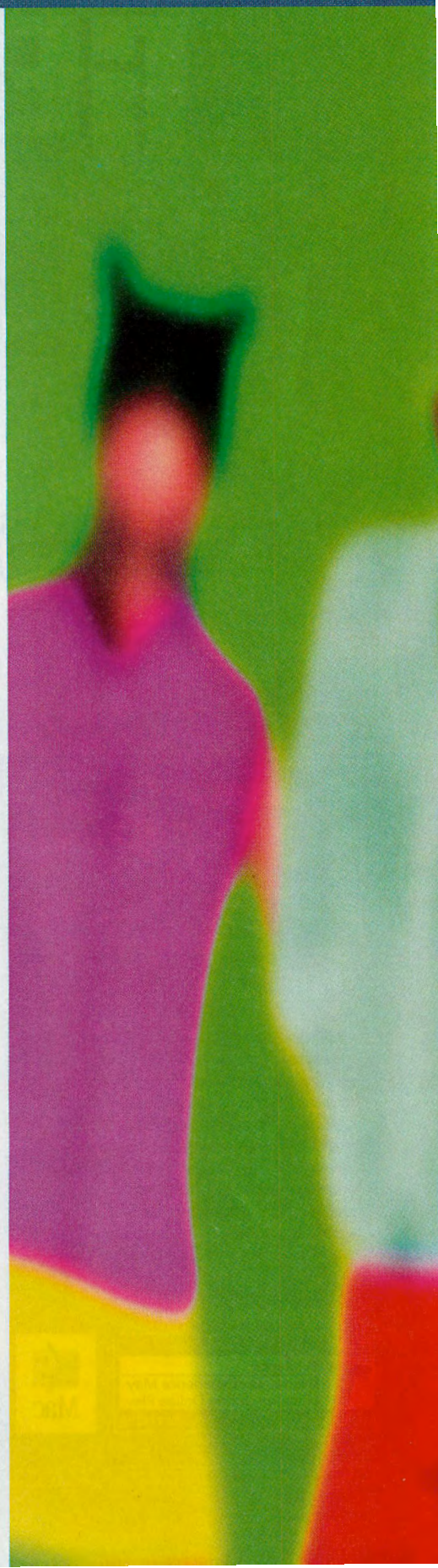
way of life. "The parameters are there to send people to the next level of Apple software, i.e. Logic," says Cohen, adding that underlying GarageBand's easy-to-use interface is the code and DSP processing of Logic. GarageBand also draws from Apple's Soundtrack (\$199), the loop-based music-creation tool that makes audio for movies and DVDs.

The intricacies of pro apps create a secondary market for GarageBand. Pro apps are powerful and have so many options, Cohen says. "Sometimes that power gets in the way of creativity...I can see GarageBand being used as a demoing and sketching tool."

Electropop rock artist Saint Eve, aka L. Gabrielle Penabaz, agrees. Saint Eve's sound morphs to performance-art visuals and guest musicians, so spontaneity is everything. Penabaz likes the idea of getting quick results with GarageBand's instrument recording, beat making, and looping. "It would leave me more time and energy to invoke the personal 'x factor' that separates me from other writers. If the sketch rules, keep it! Often, subsequent takes don't have the vitality of the original performance, so something like GarageBand could be anyone's secret weapon—consumers and

pros alike," she says.

Right now Saint Eve distributes her music on CD Baby



(www.cdbaby.com), an online record store for unsigned artists, but that could change since Apple began distributing CD Baby artists on iTunes Music Store in December 2003.

GARAGEBAND PLUS ITUNES EQUALS MP3.COM?

Apple may not have intended to champion indie artists, but it has. When CD Baby announced its agreement with Apple, others came knocking on CD Baby's door. "Rhapsody called, then eMusic, and MusicNet," says Derek Sivers, founder of CD Baby. "I give credit to Apple for kicking it off."

So with Apple selling grassroots tools and distributing grassroots artists, is iTunes Music Store poised to be the next MP3.com? Experts say no. "The correlation between iTunes and GarageBand is music, but they're going after two different markets. Does Apple want to put itself into the role of record label? I don't think it does," says Michael Goodman, senior analyst at The Yankee Group.

Sivers agrees. "There's no money in being an MP3.com. It's much smarter for Apple to sell the tools than to be the altruistic means of hosting the stuff for free. That would be too far outside their mission."

THE FUTURE

Even so, Apple's audio offerings are strong enough to worry some pros such as Perry Lancaster, a sound engineer at The Plant in Sausalito, California, which has recorded celebrity artists from Prince to Ozzy Osbourne. "Forty-nine-dollar software that's going to put me out of business is not something I enjoy," he says. "A lot of new kids, the rap guys, they just do it on their own. They're not going to facilities to record major albums."

Apple's mission right now is to sell Apple hardware by selling software and services that require that hardware. But in the wake of iTunes Music Store and the boost it has given to the digital-download industry, we predict a great future for Apple's home-recording invasion.

—Narasu Rebbapragada

NEW STUFF

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\$64.99 to \$159.99, www.sandisk.com

Available: Now

This cute USB 2.0 keychain drive snaps into the included Cruiser Micro MP3 Companion, which has a blue LED display, to become a portable MP3 player.

► **EASY ILLUSTRATOR**

EasyDraw

\$95 (download), www.easydraw.com

Available: Now

This entry-level illustration app puts easy-to-use Bézier curves, grouping tools, colors, gradients, and hundreds of prefab shapes into the hands of Mac OS X users. EasyDraw can import MacDraw II files too.



Shapes created with EasyDraw.

► **CHEAP WEBCAM**

IceCam

\$39, www.macally.com

Available: March 2004

This unobtrusive USB Webcam works with Apple's iChat AV to record video but not audio. Plus, it's about one quarter the price of an iSight cam.

► **ESHREDDER**

AutoScrubber

\$29.99 to 59.99, www.jiiva.com

Available: Now

This file-deletion utility erases temp, duplicate, and other behind-the-scenes copies of files you've deleted.

Macally's IceCam Webcam.



DROOLWORTHY

Sexy Stuff We Can't Wait to Get Our Mitts On

Deluxe Media Player →

Tight Systems' Taz (sub-\$1,000 estimated, www.tightsystems.com) stores and plays back TV shows (even HDTV); MPEG 1-, 2-, 4-, and DivX-recorded video; photos; and MP3s from its swappable 60GB hard drive. The Taz is Ethernet-ready, and comes with a 4-inch LCD and an SD card slot. Tight Systems is currently looking for Mac developers and estimates Mac compatibility in 2004.—NR



PHOTOGRAPHY COURTESY OF TIGHT SYSTEMS



← 8-Megapixel Camera

Olympus' C8080 (\$999, www.olympus.com) is an 8-megapixel digital camera with 5x optical zoom. It comes with an 1.8-inch LCD, 10 shooting modes, and slots for xD and CompactFlash cards. The included snap-on battery holder contains an extra battery that kicks in when the first one conks out.—NR

PHOTOGRAPHY COURTESY OF OLYMPUS

GADGETS FROM VEGAS

This year's Las Vegas Consumer Electronics Show (CES) was a mecca for everything big and small. There was plenty for Mac users to get excited about. Here are a few notables.—KF

► **WEAR YOUR MUSIC** Eratech's **EMP-Z Wearable MP3 Player** (\$169.99 for 128MB, www.eratech.co.kr/eng), like the iPod mini, comes in Easter egg colors and can recharge itself via USB. It's also only about the size of the mini's jog wheel.

► **FUNKY WEB CAM** O'Rite Technology's **My-Cam MY-350** (price TBA, www.oratech.com.tw) is a little USB Webcam that also takes low-res snapshots. It caught our eye the minute we saw it. Though they don't reference *South Park*, you can't help but notice the similarity to Kenny. (Note: The cam requires a third-party driver for Mac compatibility.)



Panasonic's Lumix DMC-FZ10.

► **TINY HARD DRIVE** Toshiba (www.toshiba.com) will roll out its 0.85-inch hard disk drives this summer. They will have initial capacities of 2GB and 4GB.

► **BIG-ZOOM CAMERA** Panasonic's Lumix **DMC-FZ10** (\$599.95, www.panasonic.com) offers a 12x optical Leica zoom lens, 4 megapixels, and a Mega O.I.S. (Optical Image Stabilizer) to keep caffeine jitters from spoiling pics.

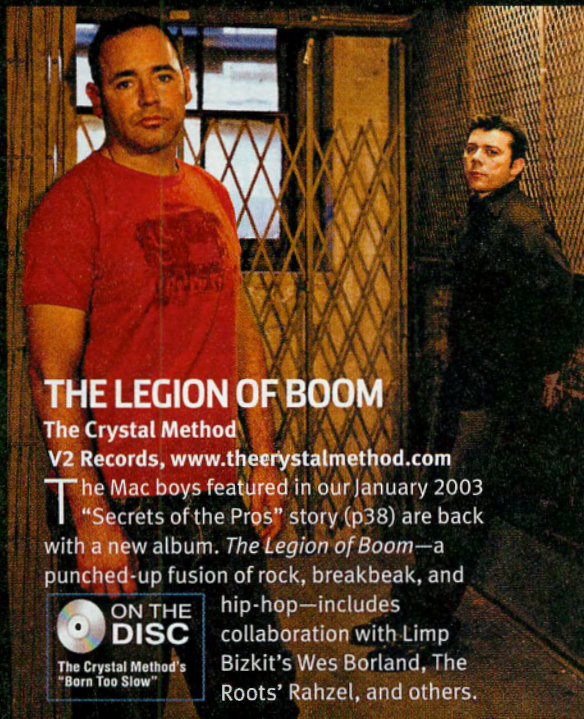


Eratech's
EMP-Z Wearable
MP3 Player.



O'Rite Technology's
My-Cam MY-350.

MACS: MAN'S AND DOG'S BEST FRIEND



THE LEGION OF BOOM

The Crystal Method

V2 Records, www.theocrystallmethod.com

The Mac boys featured in our January 2003 "Secrets of the Pros" story (p38) are back with a new album. *The Legion of Boom*—a punched-up fusion of rock, breakbeat, and hip-hop—includes collaboration with Limp Bizkit's Wes Borland, The Roots' Rahzel, and others.



SECOND CHANCES

Elise Lufkin with
photography by Diana Walker
The Lyons Press,
www.founddogs.com

Elise Lufkin, author of *Found Dogs*, tells the warm fuzzy stories of adopted dogs in her new book *Second Chances: More Tales of Found Dogs*. For layout, the book's designer used QuarkXpress 4.0 on a Power Mac G3 with 512MB of RAM, and created duotones of the photographs using Photoshop 6.0.

SINGING CD WALLET

TDK's Imaspeaker CD wallet (\$24.99 and \$34.99, www.tdk.com) has built-in flat-panel speakers and plugs into your Mac's or iPod's audio-out port.





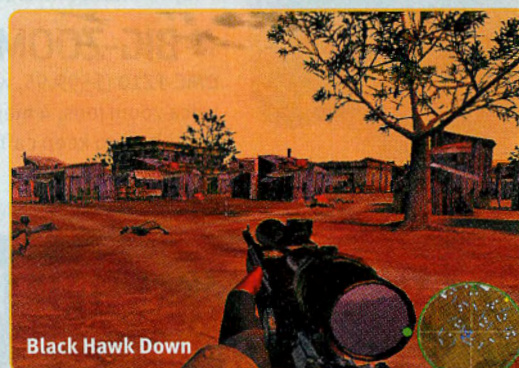
SimCity 4 Rush Hour

ASPYR'S GOT GAME

Shooters, Sims, and War

Aspyr Media (www.aspyr.com) announced five major releases targeted at new and veteran gamers alike.—*Matt Osborn*

Game	What It's About
SIMCITY 4 RUSH HOUR Expected Release Jun/04 Expected Price \$29.99	This new expansion pack lets you control your city's planes, trains, and automobiles. Chase down bank robbers and catch car thieves, and you'll reap rewards such as more buildings and vehicles.
BLACK HAWK DOWN Expected Release May/04 Expected Price TBD	Based on the book and movie, this game follows U.S. Special Forces during the 1993 engagement in Somalia. Experience urban and desert firefights and go multiplayer with the NovaWorld online community.
CALL OF DUTY Expected Release Apr/04 Expected Price TBD	In this WWII first-person-shooter, you play a U.S. paratrooper, a British Special Forces Operative, or a Russian infantryman. Authentic graphics, squads, and weapons add to the realism—on or offline.
COMMAND & CONQUER GENERALS Expected Release Feb/04 Expected Price \$49.99	This real-time strategy series' latest installment pits the technologically advanced U.S. Army, the massive Chinese army, and the resourceful Global Liberation Army against each other in a struggle for global dominance.
MEDAL OF HONOR: ALLIED ASSAULT BREAKTHROUGH Expected Release Mar/04 Expected Price \$29.99	Medal of Honor Allied Assault's latest expansion pack includes 11 new single-player levels in Africa and Italy, as well as nine new multiplayer levels. A new Liberation Mode lets you rescue POW teammates.



Black Hawk Down



Call of Duty



Command & Conquer Generals

FERAL OFFERINGS

Games and Tales from the Toy Chest

Feral Interactive (www.feral.co.uk) adds whimsy and artistry to two unusual action titles.—MO



XIII

Price \$50
Available Q2 2004
www.feral.co.uk

XIII

The cel-shaded animation used to create the first-person-shooter XIII has the feel of a superhero action comic. You play a secret agent accused of assassinating the President. You use weapons and stealth to uncover a government conspiracy. XIII uses Unreal Tournament II technology and offers killer online multiplayer capability.



Bionicle

Price TBD
Available Q2 2004
www.macsoftgames.com

BIONICLE

Based on the Bionicle line of Lego toys, this 3D action-adventure title looks like a Saturday-morning cartoon and puts you in the role of the six Toas (heroes of destiny), who must defeat the evil Makuta and return light to the island of Mata Nui.

TIPS: AGE OF MYTHOLOGY ONLINE

www.macsoftgames.com

Keep Your Town Center Working

Never let it be idle until you have a strong economy with about 35 to 45 villagers.

Use Your Resources Invest in units, buildings, and upgrades unless you're saving up for your next Age advance.

Scout Your Enemy Find out what units your enemy is using so that you can build the appropriate counter units.

Find Experts Add helpful players online to your GameRanger buddy list.



Teacher Ron Reynolds spent \$4,000 of his own money to buy this iMac lab.

A TRUE MAC ADDICT

Teacher Spends \$4,000 of His Own Cash for iMac Lab

And you thought you were dedicated to *your* job. When Maryland's Smithsburg High School asked teacher Ron Reynolds to teach a photography class, he naturally requested iMacs for the job. When he realized he was going to get PCs instead, he took matters into his own hands, spent more than \$4,000 of his own money, and bought 14 refurbished iMacs, a printer, scanner, Zip drive, and digital-camera card reader. "Everyone said that I was crazy to buy 14 computers for the school," says Reynolds. "I told them, 'You think that's crazy? I intend to buy 14 more eventually.'"—NR

BETTER THAN iTunes RADIO?

Live365's Radio365 (\$3.65 per month, www.live365.com), a new player application, offers up to

22,000 Internet radio stations playing CD-quality tracks, with direct links to the iTunes Music Store.



Radio365 offers 50 times more music than iTunes radio.

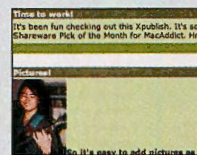
SHAREWARE PICK OF THE MONTH

XPUBLISH www.bitcom.ch \$38

BitCom's Xpublish is an application for creating personal blogs with headlines and news tickers.



You can download prefab templates from BitCom's site, and Xpublish uploads all the code and images to your server.—Andrew Tokuda



Xpublish builds your blog for you.



ON THE DISC
Alarm Clock Pro 6.3.8,
Audio Hijack Pro 1.2.6,
Chicken of the VNC 1.3.6,
Install a SuperDrive PDF,
Keyboard Maestro 1.2.3,
OSXvnc 1.32, Snapz Pro
X 2.0, and WakeUp 1.11

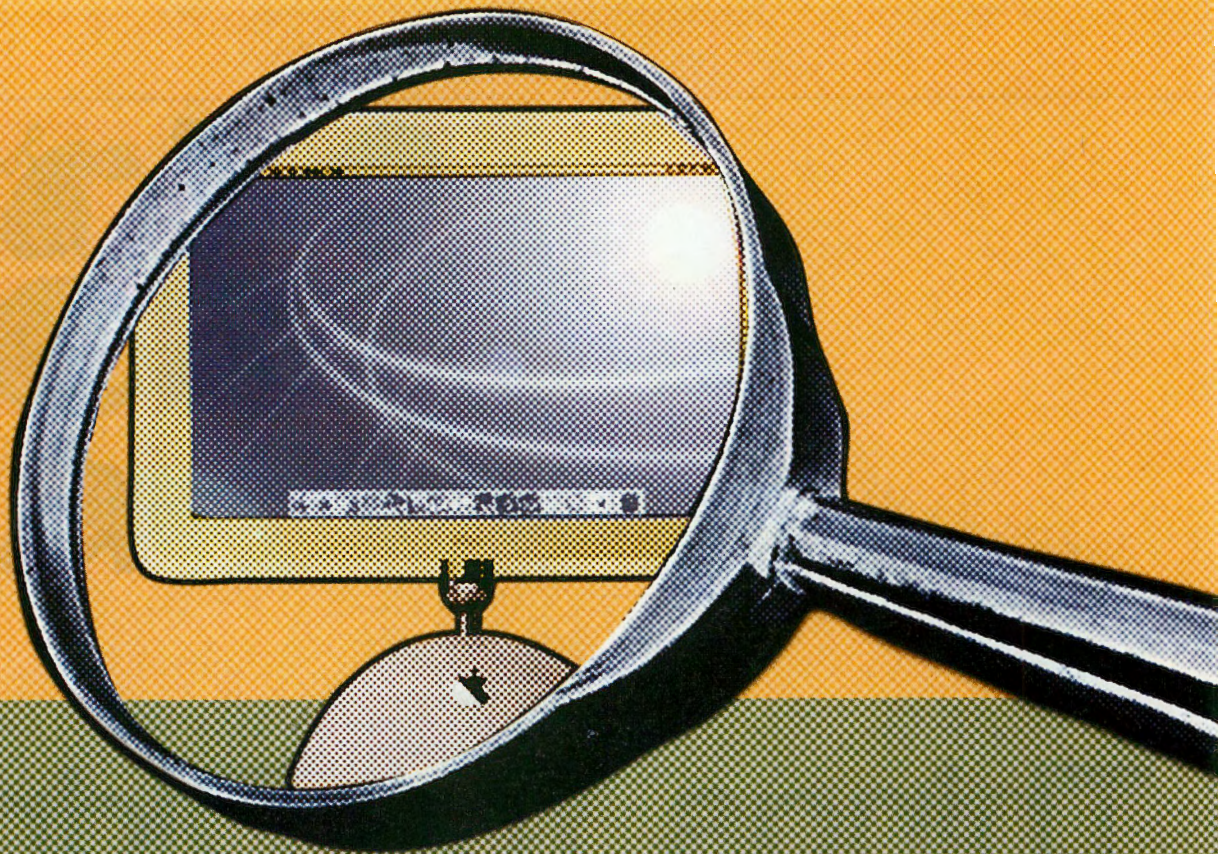


Things You Didn't Know Your Mac Could Do *UNTIL NOW!*

by Dave Hamilton

There's an old saying: "What you don't know can't hurt you." But that's not always true. Because what you don't know about your Mac can hurt you—or your productivity, at least.

For example, did you know that you can tell your Mac to start an email without touching your keyboard? Or that there's a way to email PDFs straight from a Print dialog? Or that the famous Mrs. Fields cookie recipe is hidden right on your Mac? In fact, your Mac has tons of features, shortcuts, and capabilities that many people don't take advantage of because they simply don't know about them. Add to that all the cool-but-obscure third-party apps and services, and there's a lot you can do with your Mac that you didn't even realize. So dig into our collection of 33 tricks, shortcuts, and other stuff you may not know about, and make your life easier.



Look Right Under Your Nose

Here are some helpful little tricks hidden in the apps you use every day.

1 Voice-Control Your Address Book Panther includes some spiffy new—and oft-overlooked—voice-recognition features. For example, if you enable voice recognition in the Speech system preferences pane, you can hold down Escape and say, “Mail to Steve Jobs.” Your Mac will then go to Address Book and address an email to Steve-o in your default mail application.



Turn on Apple Speakable Items to let your mouth do the controlling.

If you say “Phone Steve Jobs,” your Mac will display the big guy’s main phone number in large text onscreen.

If your Mac doesn’t have a built-in microphone (most do), you’ll need to attach one. The voice recognition’s accuracy is surprisingly good, and you don’t have to spend hours training it. (Sorry, Steve Jobs’s contact info not included.)

2 Auto-Size Your Finder Columns If you use the Finder’s column view, you’ve probably come across columns in which longer file names wind up with ellipses in the middle, making it impossible to read all the words. Fret no more! Double-click the slider widget you’d use to resize the column, and presto! Mac OS X instantly scales the column to fit all the file names.

3 Check Your True Colors

If you want to know the exact shade of lime-green someone’s using on their Web page or match a color in one of your digital pictures, open up Utilities > DigitalColor Meter. Put your cursor over the color you need to decipher, and the DigitalColor Meter will identify, say, its red, blue, and green values.



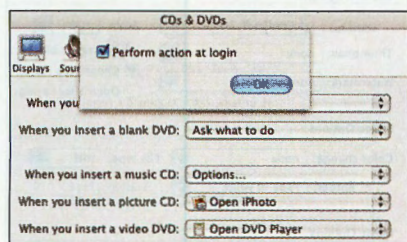
❏ DID YOU KNOW? Butterflies taste with their feet. Special little hair sensors allow them to taste anything they stand on. Thank God this isn’t a human trait.

4 Go from Your Address Book to .Mac

Apple's Address Book is full of tricks. For example, did you know that you can jump right to someone's .Mac-hosted Web page or iDisk? Simply click the label for their email address, and up pops a menu that gives you the option to send an email or go to that person's .Mac page.

5 Auto-Play Your Music

When you plug a music CD into your Mac, iTunes launches and automatically begins playing the CD (if that's how your preferences are set). If you reboot your Mac with a music CD already in the drive, this doesn't happen. You can change that behavior, however, by way of a hidden menu option.

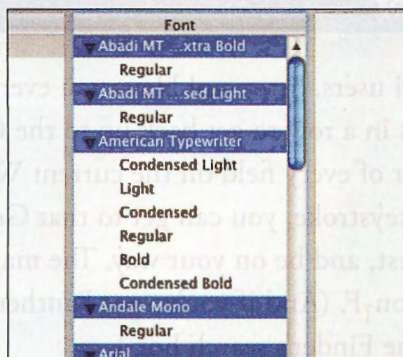


Go to CDs & DVDs system preferences to access a secret option.

Go to CDs & DVDs system preferences, hold down the Option key, and click the When You Insert A Music CD pull-down menu. You'll notice a new choice at the bottom called Options. Choose this, and a little pane will drop down, allowing you to click a check box: Perform Action At Login. Check this box, and any CD in your drive at start up will play automatically, as if you had just inserted the CD.

6 Show All Your Fonts

If you have a lot of fonts, at some point you'll want to check out all of your font faces and look to see which ones have bold and italic versions. On the surface, Panther's Font Book doesn't appear to make this easy—but it does. Just open Font Book, highlight all your fonts, and press the right-arrow key on your keyboard. Voilà! Font Book expands all of the fonts so you can scroll through them and peruse the available faces for each

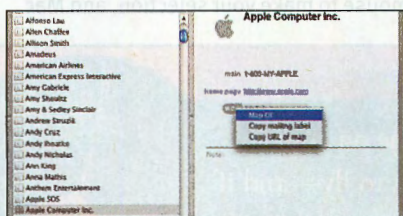


Highlight all of your fonts and press the right-arrow key to view them.

one. To collapse the view, simply select all your fonts and click the left-arrow key.

7 Go from Your Address Book to MapQuest

MapQuest has all but become ubiquitous now that Microsoft has swallowed up MapBlast. In fact, MapQuest is even—in very subtle ways—tied into Mac OS X. If you open up Address Book, and then click and hold any contact's address title (click the words *work* or *home*, not the address itself), you'll get a menu that will allow you to, among other things, jump right to a MapQuest map of that address.



Click the address title in Address Book for quick access to a map.

8 Resize Text in Safari

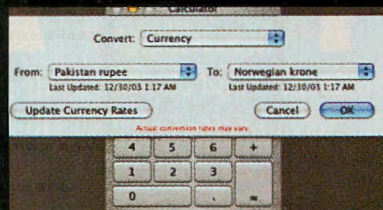
Sometimes the text on a Web page is just too small to read without squinting so hard that you get premature wrinkles. Instead of resigning yourself to regular Botox treatments, try this shortcut in Safari (and most other browsers): Hold down Command and press the plus-sign (+) or minus-sign (-) keys to adjust the text size to your liking. The text will retain your new setting in that particular window (or tab), and revert to the default for the next window or tab you open.



9 Convert Currency with the Calculator

You can have lots of fun with Mac OS X's Calculator—and no, we don't mean entering "379009" and turning your Mac upside-down. (Hint: It's a search engine.) The Calculator in Mac OS X is full of surprises, not the least of which is its ability to convert between units of measurement and currencies.

Open Calculator, type in the amount of whatever currency you're starting with, and go to **Convert > Currency** in the menubar. In the box that appears, click the **Update Currency Rates** button, choose the currencies you're converting from and to, and click **OK**. Now you know how far (or not) your dollar goes in Malaysian ringgits.



Mac OS X's Calculator can do a lot more for you than just add up your sick days.

★ DID YOU KNOW? A typical issue of *MacAddict* contains about 35,000 words—not counting ads. If you pay cover price, that works out to about \$.0002 per word, excluding tax. What a deal!

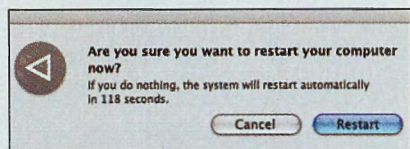
10 Search with Safari's Google Box



Safari users, listen up! Have you ever punched the Tab key about 10 times in a row to get back up to the Google search box, only to get a tour of every field on the current Web page? Fret no more: With one keystroke, you can get to that Google search box, type your request, and be on your way. The magic key combo? Command-Option-F. (And if you've got Panther, this key command also works for the Finder's search box.)

11 Skip to the Shut Down

It's simply not cool when your PC friends see you answering dialogs confirming that you want to restart your Mac. If you tell your Mac you want to shut down, you mean it. To avoid this nagging behavior, hold down the Option key when choosing Restart, Shut Down, or Log Out from the Apple menu. Your wish will be executed



You can avoid this pesky Restart confirmation window with a shortcut.

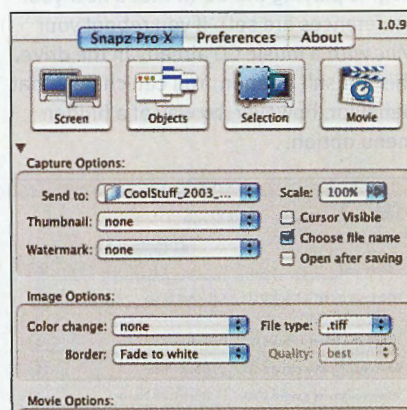
immediately, with no other warnings or lip from the OS.

13 Take Fast Screenshots

You probably know that good ol' Command-Shift-3 will snap a screenshot of your entire display, but do you know all of your Mac's built-in screenshot capabilities? No? Read on.

Command-Shift-3: This takes a PDF picture of your entire visible screen (it will even span multiple monitors).

Command-Shift-4: This turns your mouse pointer into a crosshair. Drag your mouse to make your selection, and Mac



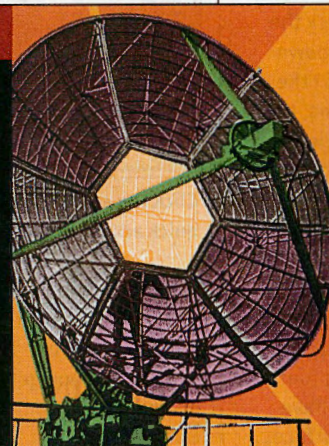
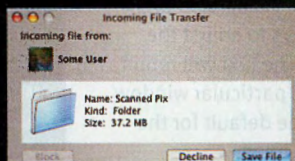
Snapz Pro X makes taking screenshots easy and fun. Well, as fun as taking screenshots can be.

12 Send Files Superfast

iChat allows you to send files to anyone on your Buddy List. But if you want those files to fly—and if your recipient is on your local network—try this:

1 Make sure Rendezvous is enabled. Go to iChat > Preferences and choose the Accounts pane. Enable Rendezvous messaging if it's not already done. Do this on both Macs.

2 Go to the Window menu and choose Rendezvous to display people on your Rendezvous list.



Once you accept a file, it beams across to your computer faster than you can say "Moof!"

3 Drag and drop the file you want to send right onto your recipient's name. That person will get a message asking for permission to send the file. Once blessed, iChat zips the file across your local network (AirPort or Ethernet) at Jeff Gordon-like speeds.

★ DID YOU KNOW? The Mustang-Fastback-GT-versus-Dodge-Charger-440-H/T chase scene in the movie *Bullitt* ends in a fiery crash on the very lot that now houses our own MacAddict global headquarters.

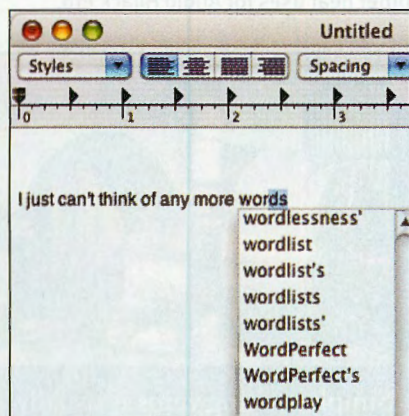
OS X will create a PDF of whatever you select.

Command-Shift-4: Press this and then the Spacebar, and your mouse cursor will change from a crosshair into a camera. Float it over any window to select the entire window, and click to take the screenshot. This is handy if you want to create a screenshot of just one window.

If all else fails, check out Snapz Pro X from Ambrosia Software (\$49, www.ambrosiasw.com). Depending on what type of Mac you have (and when you got it), this helpful app may already be installed on your drive. Snapz Pro X has more options than you can shake a stick at, and if you wind up taking screenshots on a regular basis, it's well worth the investment.

14 Improve Your Spelling

Mac OS X provides a built-in spelling checker for any Cocoa application (TextEdit, for example), and many of us spelling bee–challenged types have come to rely on it. However, in Panther you can tap into the spelling checker even before you misspell something. When in a Cocoa app, just type a few letters, press Option-Escape, and you'll see a list of words that begin with those letters. Simply select a word and continue onward.



In a Cocoa app, you can type a few letters and then press Option-Escape to call up a list of all the words that begin with those letters.



Dig a Little Deeper

Sometimes taking a closer look at your Mac—or enlisting third-party help—yields hidden treasures.

15 Reposition Scroll Arrows

When it comes to the land of scroll bars, Mac OS X lets you decide whether you want one arrow at each end or both arrows at one end. But what if you want *both* arrows at *both* ends? Apple doesn't make that easy, but Mac OS X's Unix underpinnings do. Head over to the Terminal (Applications > Utilities) and type in the following command: **defaults write "Apple Global Domain" AppleScrollBarVariant (space) DoubleBoth**

To see the change, you need either to quit all your apps, or log out and log back in. To turn your scroll bars back to normal, go to the Appearance system preferences (or to General in Jaguar) and choose your preferred settings.



Place double scroll arrows at both ends of the scroll bar to minimize mousing.

16 Clone Your Disk Many of you have gone through the torture of installing a new drive in your Mac and then manually copying all of your programs and settings to it so it can boot

❖ DID YOU KNOW? Besides a killer shower scene, the Alfred Hitchcock movie *Psycho* is renowned as the first film to feature a flushing toilet. (Bonus fact: Most household toilets flush in the key of E-flat.)

17 Get a Pro Paint Job

Yeah, Apple designs the coolest computers and music players in the world, but sometimes they just don't match the plaid décor of your office. Enter the folks at ColorWarePC.com, who

have been painting computers for years and now offer services to Mac users as well. The company will paint your PowerBook or iBook for \$399, and by the time you read this, you should be able to get your desktop Mac painted for \$399 as well. Or if you haven't yet bought an iPod mini, you can get your white iPod painted for \$49.



Painting your iBook yellow doesn't make it a lemon—or a submarine, for that matter.

your Mac. With Mac OS 9, that wasn't so bad, but with OS X's crazy permissions, it can be a real bear. Well, Panther's Disk Utility saves the day yet again with its new Restore tab, which allows you to pull a Dolly the sheep on your disk.

Open Disk Utility and click the Restore tab. Choose a volume (or an image, or even a URL for an image) as your source, and a volume for your destination. Click Restore. That's it! After Panther has done its thing, your destination drive will be a clone of your source drive.

18 Reallocate Photoshop's Memory Adobe Photoshop is about as hungry for system resources as Homer Simpson is for pie. Yet, unlike Homer, it won't necessarily seek out those resources until you give it the OK.

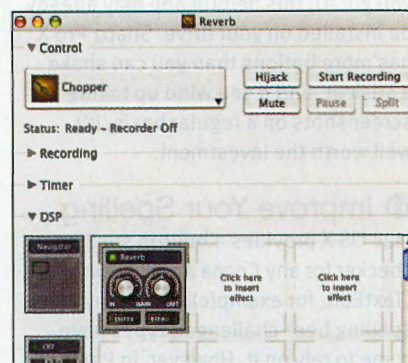
Often Photoshop quits unexpectedly when dealing with very large files, even on the brawniest of Macs. In Mac OS 9, you knew to summon Get Info and edit the amount of RAM assigned to Photoshop to solve this problem. But what do you do in Mac OS X? Adobe recommends using an oft-overlooked Photoshop preference to solve this problem. In Photoshop, go to Photoshop > Preferences > Memory & Image Cache. In the dialog that appears, look at the Memory Usage setting.

By default, it's set at 50 percent. Adobe recommends increasing this to 75 percent (but no higher—gotta leave some room for Mac OS X in there!) to dramatically reduce the number of crashes and freezes that result from working with large files.

19 Add Sound Effects to Your Games Ever wanted to add some shake, rattle, and roll to your games? Well, thanks to the folks at Rogue Amoeba, you can now enjoy seat-rattling, reverberated gunfire in the comfort of your own home. Using Rogue

Amoeba's app Audio Hijack Pro (\$30, www.rogueamoeba.com), you can add digital sound enhancement to your Mac gaming experience—something we've wanted to do for a long time.

With Audio Hijack Pro, you can add one of thousands of effects to your Mac's sound output (including any VST plug-ins you might have). It's easy too. Simply launch Audio Hijack Pro and choose the game you want to control or hijack—Halo, for example. Under the DSP pane, click in one of the empty slots (where it says Click Here To Insert Effect) and pick Reverb from the list of included effects.



Easily add reverb to your games to make your guns sound (and feel) bigger.

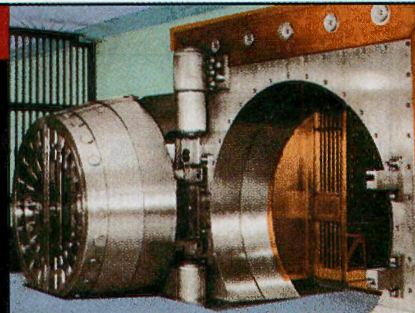
After that, just crank up the volume, and fire away!

If you don't want to add sounds effects to your games, there are a number of other neat uses for Audio Hijack Pro.

20 Securely Delete Disk Data

Conspiracy theorists, rejoice! Panther introduced an enhancement to Disk Utility's Erase Options that offers ultimate security.

In addition to simply erasing a disk, Disk Utility now allows you to rewrite that entire disk with zeros or, if you prefer, random data eight times over.



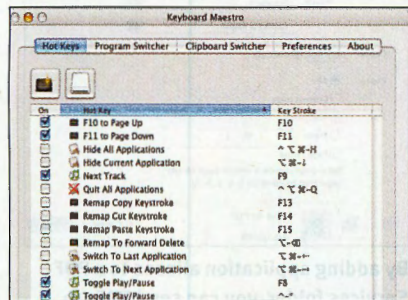
Simply writing zeros is usually enough for most folks, but there are people out there (usually those who wear dark glasses and

❖ DID YOU KNOW? What's the largest snake in captivity? If confirmed, it could be a 49-foot, 990-pound python in Indonesia. Puppy lovers, look away! This unipithy python eats three to five dogs a month.

For example, it can digitally record audio from just about any application, which is handy for, say, archiving a RealAudio stream.

21 Make Your Keyboard Roll Over Think about it: There are probably a *lot* of keys on your keyboard that go unused. And until Exposé arrived in Panther, function keys were second-class citizens, especially on desktop Macs. Well, thankfully there's software out there that can help you make use of all your keys.

Michael Kamprath's Keyboard Maestro (\$20, www.KeyboardMaestro.com) lets you supercharge your keyboard. Even the free Lite version can do quite a bit. (There's also CE Software's QuicKeys, www.cesoft.com, which is more powerful than Keyboard Maestro but costs about a hundred bucks.) In addition to letting you assign different tasks such as opening



Use Keyboard Maestro to custom-program your keyboard.

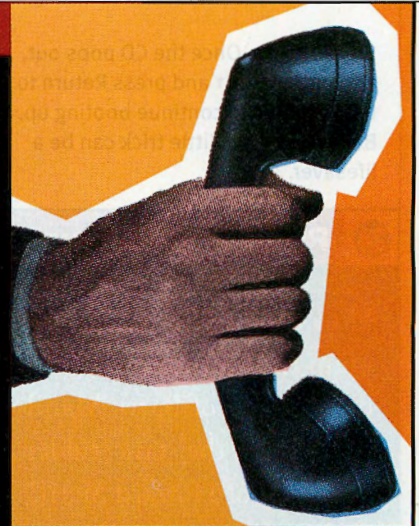
represent government agencies) who say they can read through the zeros and find a latent image. If you really want to make sure no one sees your collection of Britney Spears music and pictures (which may not actually be overly paranoid), you can choose the second option, which will write over your data eight separate times, passing the limits of

22 Play Secretary

Has your Mac been slacking off lately? Want to squeeze the most work you can out of it? Then make it answer your phone calls for you.

To do so, you need to turn to a third-party app like Ovolab's Phlink (\$159.95 for software and required USB adapter, www.ovolab.com).

Phlink turns your Mac into a full-featured answering service. In addition to simply recording voice mails and receiving faxes, Phlink can interact with your callers. They can play songs, leave messages in multiple mailboxes, hear help desk-style information, and even trigger AppleScripts on your home Mac.



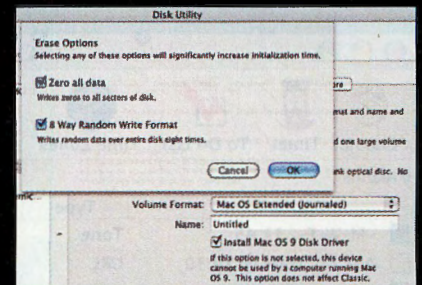
a Web page or applications with a single keystroke, Keyboard Maestro includes multiple clipboards (four are in the free version) and an enhanced version of the old app Program Switcher, which helps you quit, hide, or switch between apps. It's a great little accessory and can really help round out your Mac experience.

23 Eject a Stuck CD If you have a CD stuck in your drive, here are a few easy ways to extract that shiny silver disc.

The simplest way is to just click and hold down your mouse as soon as you start up. More often than not, the disc will pop right out, long before the OS starts to boot. If that doesn't work, restart your Mac, and immediately press Command-Option-O-F to go into Open Firmware (the operating system built into your motherboard that tells your Mac how to start up). In Open Firmware, you'll see a somewhat intimidating, Terminal-like command prompt. Type **eject cd** and

what even governmental goons can decipher.

To do so, open Disk Utility and choose a disk (not just a volume on that disk, but the disk itself). Click the Erase tab, click Options, and then choose either Zero All Data or 8 Way Random Write Format. Just like your Enron investments, all of your data is gone forever.



Back up anything you want to keep before using Panther's extended Erase Options. Even DriveSavers (www.drivesavers.com) can't save your data after you rewrite.

★ DID YOU KNOW? Forensic investigators can find evidence of blood that's been cleaned up using Luminol, a substance that glows in the dark when it interacts with the iron in even highly diluted quantities of hemoglobin.

press Return. Once the CD pops out, type **mac-boot** and press Return to tell your Mac to continue booting up. Believe us—this little trick can be a lifesaver.

24 Provide a Wakeup Call

How cool would it be to wake up in the morning to the clear, dulcet tones of Barry Manilow rather than the static-ridden, crass talk of Howard Stern? Well, we guess that depends on who you are.

If you sleep in the same room as your Mac (come on, who doesn't?)—or else turn the volume way up—you can use your favorite iTunes music as your alarm clock ring. There are a few ways to do this (including one very convoluted process involving the Terminal and scripts). By far one of the easiest ways, however, is to use Koingo Software's Alarm Clock Pro (\$15.95, www.koingosw.com).



Use Alarm Clock Pro to keep your life on schedule in the coolest way possible.

25 Send PDFs to Email Apps

If you're constantly creating PDFs in Mac OS X and emailing them to clients and coworkers, you might have noticed that there's no way to



Creating an alarm is simple. Just go to Alarm > New, set the time and days you want the alarm to go off, select a Playlist or choose Random iTunes Song from the Default Ring Tone menu, and click Set. You now have no excuse to miss work in the morning.

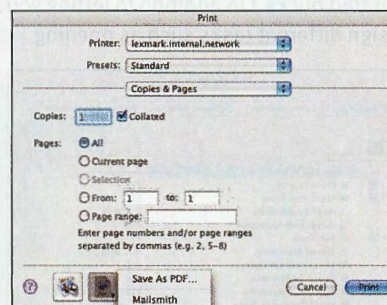
Alarm Clock Pro has other powers as well: At designated times, it can wake up or shut down your Mac, launch a URL, address an email, and do other things. The software also has four built-in clocks, including a Mega one that takes up your full screen so you can read the time before you put on your glasses in the morning.

email a PDF from within the Print dialog. However, it's very easy to add that capability. Follow these steps:

1 Go to your root-level Library folder and look for a folder called *PDF Services*. If there isn't one already there (there probably won't be), create one.

2 Make an alias of your favorite email application, and drop it in that folder.

3 Call up the Print dialog and look at it now! An entirely different-looking PDF menu, now represented by a PDF icon, has appeared. From the PDF menu, choose your email application. Mac OS X will render a PDF of your document and attach it to a new message in your email app. So easy, so cool, so...not obvious to users.



By adding application aliases to a PDF Services folder, you can send PDFs to those apps via the Print dialog.

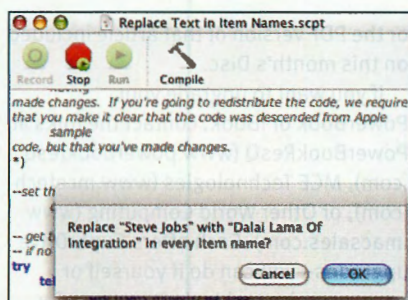
26 Batch Rename Your Files

AppleScript is a beautiful thing—even more so when a script is already written for you. If you want to change the names of a slew of files (say, songs or pictures), it can be a real chore unless you enlist the help of AppleScript.

1 Maneuver through Applications > AppleScript > Example Scripts > Finder Scripts to find the AppleScript file named *Replace Text In Item Names.scpt*. Double-click it to open the script in Script Editor.

2 Navigate back to the Finder, and open the window containing the files and folders you want to rename.

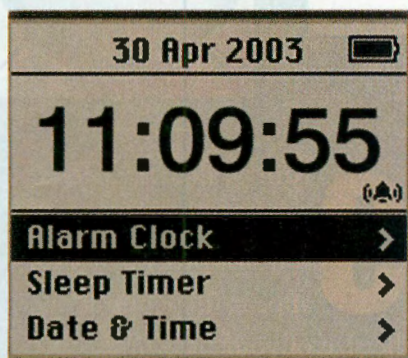
DID YOU KNOW? Mars harbors the tallest known mountain in our solar system: The volcano Olympus Mons measures about 16 miles high, which is the height of about three Mt. Everests.



Use this handy AppleScript to rename a bunch of files at once.

26 Now go back to the Script Editor and click Run. In the dialog that appears, choose whether you want to replace folder names, file names, or both. Enter the original text you want to replace, followed by the replacement text. Confirm your choices, and you're all set.

27 **Provide an iPod Wake Up Call** If you're one of those people who *doesn't* sleep next to your Mac, you might want to seek couples therapy. Or else you can use your iPod (software version 2.1 or later) to wake you up. Simply scroll to Extras > Clock > Alarm Clock to see options for turning the alarm on or off, setting the time, and choosing the sound or song you would like it to play. Of course, unless you're the type who likes to sleep with headphones on, you're better off getting some speakers to plug in. Plus, it never hurts to crank good tunes in the bedroom before you go to sleep.



Set your alarm on the iPod, and you're good to go—but don't forget to plug in your speakers.



Exploit Your Mac's Inner Geek

Want to impress your friends? You can, with your knowledge of these seriously geeky tricks.

28 **Pester PC Users** If you've ever used a Windows 2000 or XP machine, you might have seen those Messenger Service announcement-style messages that pop up from time to time. Microsoft built this feature into the OS to help IT departments administer their networks by, say, reporting problems to administrators. Well, you can use this feature to send messages to PC users on your local network right from your Mac (provided your Windows buddies haven't turned off this service). This involves a trip to the Terminal.

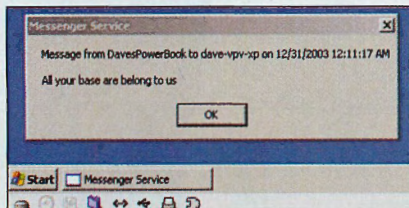
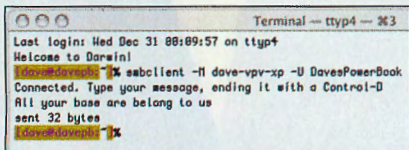
Enter the following command, replacing the italicized text with your own info:
smbclient -M *computer-name* -U (space) *your name*

Below is what the command would look like if the machine to which we wanted to send the message were named *dave-vpv-xp*. It doesn't matter what you type for *your name*, it's simply what will appear in the From line of the message.

smbclient -M dave-vpv-xp -U (space) DavesPowerBook

Press Return, then type your message. Press Return again, then press Control-D.

DID YOU KNOW? The fortune cookie is not a Chinese invention. In 1914, Makoto Hagiwara, the designer of San Francisco's Japanese Tea Garden, created the fortune cookie as a treat for visitors to his garden's teahouse.



By using your old friend the Terminal (top), you can broadcast messages to PC users on your local network (bottom).

Bingo! Up pops your message on your friendly neighborhood PC.

29 Get a SuperDrive One of the coolest things you can do with your Mac is create and burn DVDs to show off to your friends and family. But some people bought a Mac before Apple started offering the SuperDrive in the model they wanted, and others simply

couldn't justify ponying up the extra cash at purchase time. Well, assuming you've saved your shekels since then, you can add a SuperDrive to most Power Macs or PowerBooks. The catch? For iDVD to recognize the drive, it needs to be installed *inside* your Mac.

If you choose to go the internal SuperDrive route, be forewarned: There's a chance iDVD still won't work. Many people (including us) have had luck with the process, but there are people who have encountered problems. If you choose to take your chances, we recommend buying an internal Pioneer drive, which is the original SuperDrive mechanism. Other World Computing sells the Pioneer DVR-106 for \$137.97 (www.macsales.com). You should also look at Accelerate Your Mac's drive compatibility database (<http://forums.xlr8yourmac.com/drivedb/search.drivedb.lasso>), where others have shared their experiences about installing drives and how well they work. To learn how to install a SuperDrive in an older Power Mac G4, check out "Supercharge Your Mac" (Apr/03, p24)

or the PDF version of that article included on this month's Disc.

If you want to upgrade your PowerBook or iBook, contact the folks at PowerBookResQ (www.powerbookresq.com), MCE Technologies (www.mctech.com), or Other World Computing (www.macsales.com). Each offers SuperDrive upgrades—you can do it yourself or have a service techie do it for you—for anywhere from \$299 to \$399, depending on your PowerBook or iBook model, and whether or not you're comfortable performing the surgery yourself.

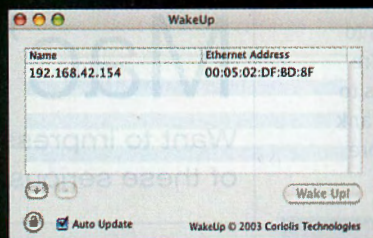
31 Return to Middle Earth

Lord of the Rings and Mac geekery—they just go together like peanut butter and chocolate. Well, look no further than the Terminal to discover a fun little Easter Egg for Tolkien fans. Next time you're bored, go to the Terminal and type: **grep "LOTR" /usr/share/** (no space) **calendar/calendar.history**

Press Return. You'll get a (somewhat inaccurate) list of various Tolkien-related events throughout the history of the world—or at least Middle Earth.

30 Wake Up a Sleepy Mac

With a little help from some freeware, you can wake up just about any Mac on the same network—as long as the machine you want to awaken is connected to a power adapter and Ethernet cable (sorry, this doesn't work on battery-powered laptops or machines on AirPort).



WakeUp can awaken any other Mac connected to the same network.



1 Download Coriolis Technologies' WakeUp (free, www.coriolis.ch/article18.html), an app that detects other machines on your network and wakes them up.

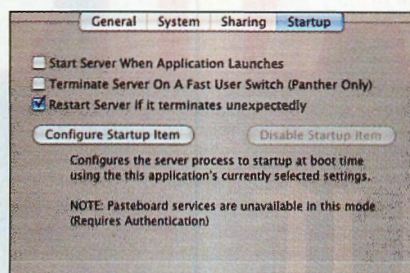
2 Enable Wake For Ethernet Network Administrator Access on any Mac you wish to wake—it's in the Energy Saver system preferences under Options.

3 Run WakeUp, check the Auto Update box, and wait for other Macs to appear (depending on the size of your network, this may take a while). Click Wake Up to awaken sleeping Macs.

★ DID YOU KNOW? The only official residents of the Tower of London are six ravens, whose wings have been clipped so they can't leave. Should they fly the coop, legend has it that disaster will befall Britain.

32 Control Another Mac

Sound familiar? You're on the phone with your mom trying to help her troubleshoot her Mac—and yet she just doesn't understand what you're saying. If only you could show her what you mean without having to drive over to her house and sit through another dinner with dry pot roast and dad's stories about his old college days. Well, thanks to Mac OS X's ties to the Unix community, there's a way—and it's free. You can use Netopia's Timbuktu to do the same thing (\$99.95, www.netopia.com), but although it's more powerful, it's nowhere close to free.



Tell OSXvnc to configure itself as a Startup Item so it will always be running.

VNC (Virtual Network Computing) is the name of a protocol people have been using for just this purpose for quite some time, and there are a few good VNC products available for the Mac. You need two programs—one to act as the server (installed on your mom's Mac) and the other to act as the client (installed on your Mac). OSXvnc (www.redstonesoftware.com/vnc.html) is a fine little VNC server, and Chicken of the VNC (<http://sourceforge.net/projects/cotvnc>) is a perfectly matched client.

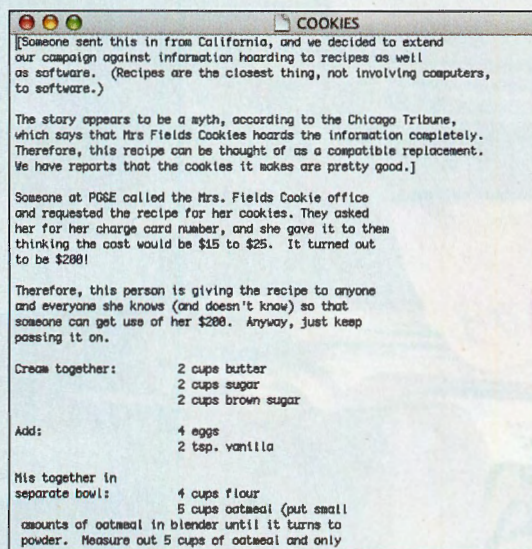
1 Install the server first on your mom's Mac. Launch OSXvnc, and make sure to set a password—this is very important, otherwise anyone can hack into mom's Mac. If you like, you can go to the Startup tab and configure OSXvnc as a Startup Item so it's always running for your mom. Click Start Server.

2 On your Mac, install Chicken of the VNC and launch it. Type the IP address

33 Provide Some Laughs

Contrary to popular belief, Easter Eggs are not a thing of the past—you just have to know where to look. And thanks to Mac OS X's Unix roots, there are still quite a few eggy holdovers.

First check out the stuff in `/usr/share/misc` by going to the Finder and navigating to `Go > Go To Folder`. In the resulting dialog, type `/usr/share/misc` and click Go. In this folder, there are a few documents—check out `flowers` and `birthtoken`. Double-click these files to open them in TextEdit, and then read all about the meanings of different flowers, or find out what your birthstone and flower are. Don't save any changes, because you may accidentally open a file that is necessary. Once you're done, summon up the Go To Folder dialog again and head over to `/usr/share/emacs`. Once there, double-click the first folder in the resulting list (it will have a name containing a series of numbers, such as 21.2). From there, look in the `etc` folder, where you'll find files like `COOKIES`, `CENSORSHIP`, `JOKES`, and `MOTIVATION`. Definitely some interesting stuff here!




Need a cookie recipe? Look no further than Mac OS X!

of your mom's Mac, enter the password you used in Step 1, and click Connect. Unfortunately, if your mom has a dynamic address, she'll have to give you that IP address each time you want to access her Mac.

That's it—you should see your mom's screen and vice versa. This kind of setup is great for troubleshooting, training, or just plain administering a

remote machine. Oh, and because VNC is a computing standard, you can also use it cross-platform with other Unix and even Windows machines. ■

 Dave Hamilton, president of The Mac Observer, thinks one of the coolest things he can do with his Mac is enlarge his...oh, wait a minute. Spam strikes again!

❖ DID YOU KNOW? *MacAddict* editor in chief Rik Myslewski is afraid of all animals—including dogs, hamsters, and horses—with one exception: his cat Mathilda Mew-Mew Myslewski.

Take the **PAIN** out of Taxes



Save time. Save money.
Get a better refund. Fire your
accountant. With your Mac
and the right tax software,
all of this is possible.

BY CATHY LU

PHOTOGRAPHY BY MARK MADEO

Recent Forms | Open Form | Delete Form

Form 1040

Form 1040 Department of the Treasury
US INDIVIDUAL INCOME

For the year Jan 1-Dec 31, 2003 or other
year ending on 1st Name, in

Your Name:
 Spouse Name:
 Street, No:
 City,ST,ZIP:

LABEL
(Use IRS
label)

Presidential
Elec Campaign

Note: Checking "Yes" w
Do you/spouse want S

Filing 1 ☐ Single
Status 2 ☒ Married filing jointly
Check 3 ☐ Married filing separately

About 95 percent of you a) use a Mac and b) file taxes—the other 5 percent of you are either too young or engaged in some sort of behavior we'd rather not know about. But while you use your Macs for work, games, movies, photos, and music, you might not be taking full advantage of it come tax time.

Although doing your taxes on your Mac won't make the sting of taxes go away, like Vicodin it can dull the pain. If you're currently a paper filer, burn those tax booklets—tax software can save you tons of time by doing calculations for you and filling in repetitive info. And—admit it—it's much less fallible than any of us. If you're currently going to a tax service or accountant, consider whether that's really necessary—tax software is cheaper and easier to use than you might think. A professional can charge you hundreds of dollars, depending on how complex your return is. Tax software will cost you about 50 bucks.

So who won't benefit from tax software? If you're a 1040EZ type, don't bother. Filling out your return, either on paper or online, is too easy to justify the cost of software. However, if you're running three businesses, own four homes on three continents, and rent two of those homes, and last year you sold tons of stocks, sent two kids to college, and adopted two more kids, just pay an accountant to do the work and go to Hawaii. You can afford it. As for the rest of us, it's time to do our taxes on our Macs—it'll be the best \$50 you've spent in a long time.

The Web Way

If you're doing your taxes on your Mac, you have two choices: Web or software.

The Web offers the convenience of working from any machine at any time. Just log in from home, work, or your local Internet café, and you can work on your taxes. Doing your taxes online means you don't have to run out and buy software or download it from the Web, and it also means that you don't have to update your software—with desktop products, you have to keep up on software updates as the government releases new forms. Finally, Web services tend to be cheaper.

Of course, there are reasons to avoid the Web and go with software. For one, software often offers little extras—in Intuit's TurboTax, for example, you get help videos that aren't available online. Also, as with anything you do online, you have to deal with the potential flakiness of Web forms and Internet connections—while some Web services are much more reliable than others, it's an issue you may confront. Finally, if you wait until the last couple of days to file your taxes, you'll have to contend with tons of Web traffic, which may cause slowdowns.

For a list of online places where you can e-file your taxes, go to www.irs.gov. Most sites charge you a fee for e-filing and some tack on a service charge as well, but there are places where you can e-file for free, provided you qualify (again, check the IRS's Web site). Also, both Intuit and H&R Block offer online versions of their

software for a cost (see facing page for more info). Both claim their Web products are almost identical to the desktop products, give or take a few features.

The Software Way

While the Web is a good option for those who want to work on taxes from anywhere with an Internet connection, most people still opt for the software option.

The two leading Mac tax apps are Intuit's TurboTax and H&R Block's TaxCut. Both employ an interview style that asks you question after question about your income, deductions, taxes, and credits. Both calculate your refund (or, gulp, payment) on the fly and display the figure as you go. Both offer tax help and advice galore. Both run error checks. Both run automatic updates to make sure you have the latest forms. Both figure out your state taxes. And both help you with future financial planning. But there are also a number of differences—here's how the two applications stack up.

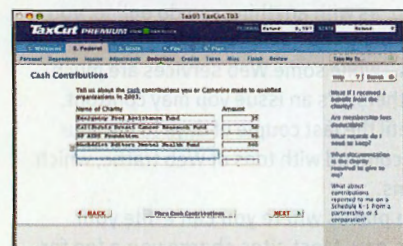
Importing Data The more data you start with in these apps, the less work you have to do later. TaxCut has more initial importing options. It can import last year's return from either TaxCut or TurboTax, as well as data from Quicken. TurboTax will only import data from TurboTax or Quicken.



One of the first things TurboTax does is offer to import last year's return.

But once you get delve deeper, TurboTax flexes its muscle. If you enter an employer number, it will try to locate your W2. If that doesn't work (it didn't for us), you can try downloading your W2 via your company's payroll service (this did work for us). TurboTax also has a number of partnerships with banks and investment houses for importing interest and investment income information—while we couldn't find any of our banks, we did find most of our brokerages. TaxCut doesn't have any of this functionality.

ADVANTAGE TURBOTAX



TaxCut's interface is about as attractive as tax software gets.

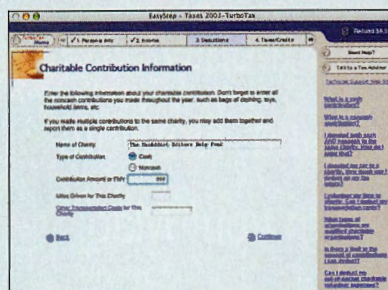
The main heads (Welcome, Federal, State, File, and Plan) all house subcategories. For example, under Federal, you see

Income, Dependents, Adjustments, and so on. Clicking one of those subcategories leads to a specific section. TurboTax has more main heads than TaxCut—Personal Info, Income, Deductions, Taxes/Credits, Misc, Final Review, State

Taxes, Print & File, and Future Taxes—so you have to scroll to access them all. Plus, TaxCut's interface is just a bit prettier—and we've always been suckers for a fine-lookin' tax application.

Ease of Use Doing your taxes is like going to Costco on a Sunday—you just want to get in and out before you go insane. Of the two tax applications, TurboTax is better at maintaining sanity. First, TurboTax's interview process is more streamlined. It asks you early in the process for any life changes that may have occurred during the year (like, in our case, getting married) and tailors the interview to your answers. Also, TurboTax tends to integrate more questions into the same window so that there are fewer screens to click through. For example, when reporting interest income, TurboTax has you fill out all of your info in one window, while in TaxCut you have to click through three separate screens to report the same data.

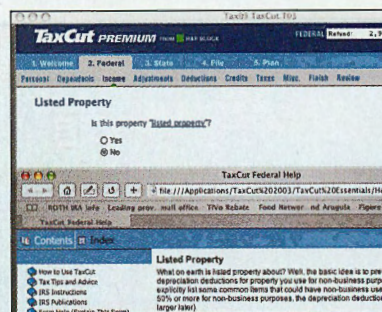
Interface Both applications have a similar interface, with a list of major categories at the top, interview questions in the main window, and the option to display the actual IRS forms at the bottom. TaxCut's interface is more streamlined:



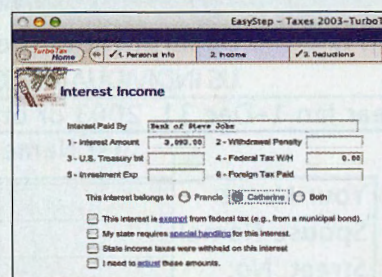
TurboTax's interface is a little clunkier.

ADVANTAGE TAXCUT

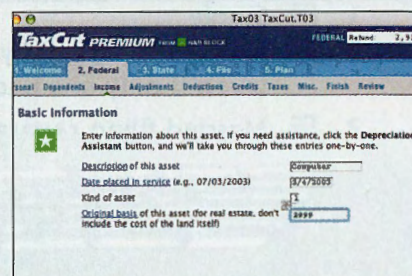
Speak English, will you?



TurboTax's one-screen pony makes entering interest a breeze.

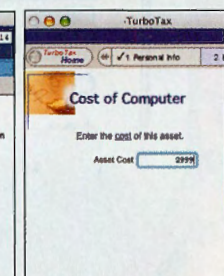


TurboTax (right) puts tax talk in terms that are easier to understand than TaxCut (left).



TurboTax (right) puts tax talk in terms that are easier to understand than TaxCut (left).

Cost of Computer

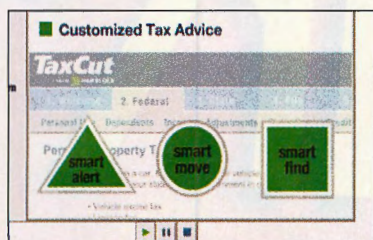


There are exceptions, though: In TaxCut you can enter all cash charitable donations in one screen, whereas TurboTax makes you enter them one by one.

Finally, TurboTax tends to cut through the tax gobbledygook better than TaxCut. When reporting our Power Mac G4 purchase for our home business, TurboTax asked for the "Asset cost" while TaxCut requested the "Original basis of this asset." Huh?

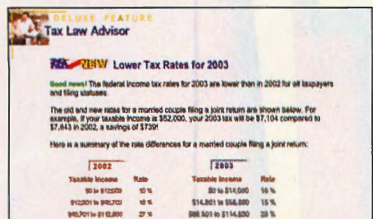
ADVANTAGE TURBOTAX

In-Application Help Tax law may never be completely lucid to the masses, but both applications try to help. Both occasionally pop up windows that



TaxCut's help videos don't let you rewind.

contain info about tax law pertinent to your situation. Both apps display common questions to the right of the main window that pertain to the tax topic at hand. Both offer instructional videos and help from directly within the application. While TaxCut's tax-law videos are a bit more informative, its movie-player interface is worse—for example, you can't rewind videos in TaxCut.



TurboTax's Tax Law Advisor gives it to you straight.

to a tax advisor. TurboTax lets you interface with that advisor either via phone or instant messaging while

contain info about tax law pertinent to your situation. Both apps display common questions to the right of the main window that pertain to the tax topic at hand. Both offer instructional videos and help from directly within the application. While TaxCut's tax-law videos are a bit more informative, its movie-player interface is worse—for example, you can't rewind videos in TaxCut.

Finally, both apps feature buttons that let you talk

TaxCut offers either phone or email access. Each company charges \$19.95 per session, although TaxCut offers one free session (via a rebate).

ADVANTAGE NEITHER

State Taxes Both apps offer one free state form. TurboTax lets you download that form immediately via its Online menu, but TaxCut forces you to *buy* and download the form, and then send in a rebate form. When you finally sit down to do your taxes, do you really want to deal with buying another product and filling out a rebate form? We thought not.

ADVANTAGE TURBOTAX

Value TaxCut is cheaper and overall a better value if you don't mind rebate hassles. There's a \$5 rebate for the main product, which brings the cost down to \$35, plus full rebates on one state form, one session with a tax advisor, and federal e-filing. TurboTax costs almost \$50 but gives you your one free state form, no strings attached. Intuit also offers a full-price rebate for federal e-filing.

ADVANTAGE NEITHER

Overall Both applications will get your taxes done. But while TaxCut gave us \$4 more in refunds, we prefer TurboTax for its ability to import data from different banks, brokerages, and payroll services; for its less-jargony language; for its streamlined interview process; and because we could download our free state form with no muss or fuss.

Some people, however, will benefit from using TaxCut. For example, if you used it last year, you can import your 2002 return. And if you want to consult with a tax advisor, you get one free session with TaxCut (provided you send in the rebate form).

OUR PICK TURBOTAX

The Bottom Line

So which tax-calculatin' solution should you run with? It depends on your tax situation, knowledge, and tastes.

Here, we've created several personality profiles. Look for the one that most closely matches your situation.

Name	Your Situation	Your Best Option
EZ Eddie	You earn a salary, you made some interest, and that's it.	Do your taxes on paper and send them in, or look for a free or cheap e-filing service on www.irs.gov .
Middling Maude	Your taxes are somewhat complex. You itemize. You're self-employed. You have some investment income. You plan to do your taxes from one machine.	Buy tax software (we prefer Intuit's TurboTax).
Traveling Joe	Your taxes are somewhat complex. You have a house. You have a spouse. You sold some stock. You'd like to work on your taxes from multiple machines and locales.	Try either Intuit's or H&R Block's Web service.
Steve Jobs	You're rich. You own your own plane. You're head of two companies. Your movie's up for an Academy Award.	Hire an accountant.



MacAddict editor Cathy Lu enjoys using tax software so much that she didn't even mind doing her taxes twice. OK, that's a lie.

Intuit TurboTax Deluxe for Mac

CONTACT:

www.intuit.com

PRICE: \$49.95

PRICE INCLUDES:

One state tax form, federal e-filing (you must send in rebate form for e-filing)

PRICE DOES NOT

INCLUDE: Tax advisor sessions (\$19.95 per session), state e-filing fee (if applicable)

REQUIREMENTS:

Mac OS 8.6 to 9.x or 10.1 or later, 32MB RAM, 95MB disk space, Internet connection

OTHER PRODUCTS AVAILABLE:

TurboTax Basic for Mac (download only), \$39.95; TurboTax Premier Home & Business for Mac, \$79.95; TurboTax for the Web, \$9.95 to \$49.95 (depending on product)

H&R Block TaxCut Premium

CONTACT:

www.hrblock.com

PRICE: \$39.95

(\$34.95 after \$5 rebate)

PRICE INCLUDES:

One state tax form, one session with a tax advisor, and federal e-filing (you must send in rebate forms for all three)

PRICE DOES NOT

INCLUDE: State e-filing fee (if applicable)

REQUIREMENTS:

Mac OS 9.1 or 10.1.5 or later, 32MB RAM (OS 9) or 128MB RAM (OS X), 150MB disk space, Internet connection

OTHER PRODUCTS

AVAILABLE: H&R Block Online, \$24.95 to \$79.95 (depending on product)

6th Annual

Prankfest!

BY JACK MILLER

Holy laugh riot, is it really April Fools' Day again? It seems as if your friends have barely healed from the skin grafts after last year's batch-o'-pranks, and the lawsuits haven't even gone to trial yet. This year, take a break from the hilarity of the ol' "Cherry Bomb in the Breakfast Burrito" (classic though it may be), and stick with this collection of mostly harmless gags for your friends' Macs—your legal defense fund will thank you later.

MacAddict's
April Fools'
Spectacular



As always, these pranks are provided for educational and entertainment purposes only. Use them at your own risk—and no, we won't help you make bail.



Heaven-Approved

If you've reformed since last year (*suuuuuure* you have) and have decided you don't want to risk losing your shot at one day sprouting wings and a halo, these gags should inflict a minimum of damage to your victim's physical and mental well being. The key word, of course, being *should*...

Exposéing Yourself

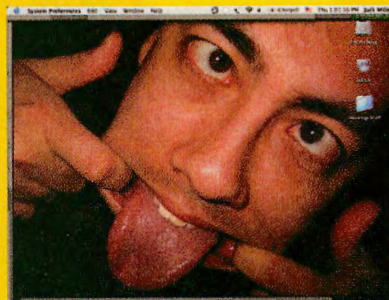
Use Exposé to Show a Different Side of Yourself

We all know Mac users who keep 300 windows open at all times and last saw their desktop sometime around when Taft was president. Work with that; if your victims happen to be running Panther, use Exposé to flash 'em a wacky desktop grin when they least expect it.

- 1 Take a digital photo of yourself making a goofy face. The more extreme the close-up, the better. Go on, don't be shy.
- 2 Get that file over to your victims' Mac, put it somewhere out of the way, and set it to be the desktop picture in the Desktop & Screen Saver system preferences.
- 3 Open the Exposé system prefs and assign the keyboard trigger for Desktop to the right Shift key (the left Shift key also works well). Close System Preferences.
- 4 If your victims keep a zillion icons on their desktops, you don't want those covering up your gorgeous mug. Use Exposé

to reveal the desktop (remember, the trigger is the right Shift key). Then create a new folder on the desktop and throw all of your victims' junk in there. Press right Shift again to slide the windows back into place.

You're all set. Eventually, in the course of typing something, your hapless victims will press the right Shift key, all open windows will scatter like roaches when the kitchen light goes on, and they will be face-to-face with an expression straight out of Looney Tunes. Record their inevitable yelps for future entertainment purposes.



GAAAAAAHHHHHHH!!!

Snowblind

Give Your Victims' Retinas a Wake-Up Call

In Mac OS 10.3, Apple added a new option to Universal Access that makes the screen easier to read for the visually impaired. As it turns out, abusing that feature yields a screen so bright and scary-looking that, for all we know, prolonged exposure might make you visually impaired. On the plus side, at least then you could use this feature legitimately.

- 1 Open System Preferences and click the Universal Access icon. Click the Seeing tab.
- 2 Drag the Enhance Contrast slider bar all the way to the right. (You might want to strap on a welder's mask first, just in case.)
- 3 Close System Preferences and back away slowly.

If you're the compassionate type, you may want to leave behind a pair of cheap sunglasses and bottle of Visine.

Weird Wide Web

When Good Home Pages Go Jive...

Ah, the soothing permanence of one's browser home page. Empires may crumble, mountains may fall into the sea, but that page is always there for you when you launch your browser. That's why it's so unsettling when it changes just an eensy bit—like, say, it's suddenly written entirely in jive. (While this gag will work on most Web sites and in any browser, the following instructions are for Safari because everyone uses Safari. Right? Right?!)

- 1 Open Safari's preferences and copy your victim's specified home page URL to the clipboard. Close the dialog.
- 2 Summon the no-cost power of Dialectizer, which filters a page's HTML on the fly and delivers a version translated into Jive, Redneck, Elmer Fudd, or Moron, among others—find more at Dialectizer's Web site (www.rinkworks.com/dialect). To translate the page to Jive, paste the home-page address at the end of the following URL in Safari's address field and press Return to load a translated version: <http://www.rinkworks.com/dialect/dialectp.cgi?inside=1&dialect=jive&url=>. You can replace the word *jive* in this URL with *redneck*, *fudd*,



moron, or any other dialect you like.

Alternately, you can render the page as read by Snoop Dogg (complete with mild profanity) by using <http://asksnoop.com/shizzolator.php?url=>. And if you want to experiment with others, there are more translator sites listed at http://directory.google.com/Top/Recreation/Humor/Computer/Internet/Web_Filters.

③ Not all Web pages work well (or at all), so test them out first. When you're looking at a translation you like, reopen Safari's preferences and click the Set To Current Page button under Home Page. Close the Preferences dialog and quit Safari.

The next time your victims launch Safari, they will wonder why the home page looks a little...different. "Why does CNN keep saying 'fo' shiznit, yo'?"

Say hi to our new Webmaster,
the Swedish Chef.

Skating on Thin Ice

Let's say you're a little less concerned about your karmic balance and a little more preoccupied with sticking it to your buddies in the time-honored fashion of a true April Fools' maestro. The following pranks are a shade crueler and might stain your soul, but it's probably nothing some community service and donations to orphans can't get out.

The Dock That Wasn't

Swap the Real Dock for a Fake

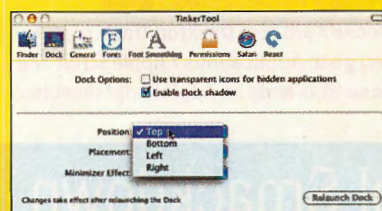
Ever seen someone wear out a mouse button trying to click something that's not really there? Do you want to? The next time your victims take a bathroom break, leap into action:

- ① **Launch Preview.** In the Preview menu, choose Hide Others. You should see nothing except the desktop and Dock.
- ② **Take a screenshot (Command-Shift-3).** The file (Picture 1) will appear on the desktop. Move it into the Documents folder to tuck it out of sight.
- ③ **Open the Desktop & Screen Saver system preferences,** and set the desktop picture to the screenshot you just took. Oooh, redundant.
- ④ **Run TinkerTool (free, www.bresink.de/osx/TinkerTool.html),** go

to Dock, and set Position to Top. Click Relaunch Dock. You should see the real Dock reappear at the top of the screen. Quit TinkerTool.

⑤ **Go to the Apple menu and select Dock > Turn Hiding On.** The real Dock at the top of the screen goes bye-bye, leaving the fake one at the bottom to befuddle and confound your victim.

Chortle merrily to yourself while your victims click the fake Dock a bajillion times in frustration. Repetitive stress injuries are hi-larious! When you get bored, reverse the effect from the Apple



menu (Dock > Position: Bottom) and reset the old desktop picture. No harm done, except to your victims' tendons.

Use TinkerTool to stow the real Dock at the top.

Break Like the Wind

Torment Your Victims with the Merry Sounds of Bodily Functions

This joke works best in an office-type environment where there are plenty of people within earshot. Best of all, while the setup is fairly intensive, you can do it all weeks in advance.

- ① **Put a copy of Play Sound (free, <http://microcosmsoftware.com/playsound>) on your victims' Mac**

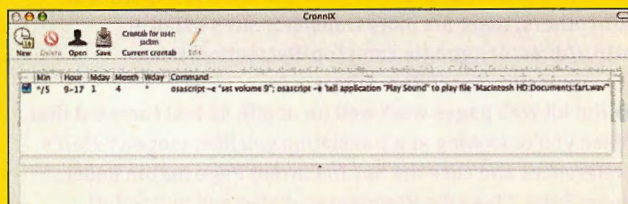
in the root-level Documents folder. While you're at it, stash a rude sound or six there—you can find free sound effects WAV files at sites like Sound America (www.soundamerica.com) or record your own (just don't share the recording details). Any sound file that plays in QuickTime will work.

② **Open the Accounts system preferences and add Play Sound as a startup item for the current user (pre-Panther, go to the Login Items system preferences).** Since Play Sound is a faceless background application, your victims will never even notice it. Launch Play Sound immediately if crunch time is near.

MacAddict's April Fools' Spectacular

③ Run the scheduling app CronniX (free, www.koch-schmidt.de/cronnix) to set up a timed event (or if you're a Unix geek, do your thing with `crontab` in the Terminal). Set a repeating event as shown in the screen at right: Type 4 in the Month field to indicate April, 1 in the Mday field to indicate 1st of the month, 9-17 in the Hour field to indicate all hours from 9 a.m. through 5 p.m. Inclusive (so it actually goes to 5:55 p.m.), and */5 in the Min field so that the event will repeat every 5 minutes. For the event, type the following: `osascript -e "set volume 9"; osascript -e 'tell application "Play Sound" to play file "startup disk:Documents:sound file"'` and make sure to adapt the name of the startup disk, as well as the sound file name.

There you have it: thousands of years of technological innovation culminating in a whoopee cushion that automatically goes off every 5 minutes. Our forefathers would be proud.



Thanks to CronniX, this Mac is now a \$2,000 whoopee cushion.

H-E-Double Hockey Sticks

Evil. Evil, we say! The following pranks will knock your karma so low it'll be running from the subterranean Mole People. Proceed no further if you have plans for an afterlife that doesn't involve uncomfortably high temperatures and big red guys with horns jabbing you with pitchforks.

Everything in Its Place

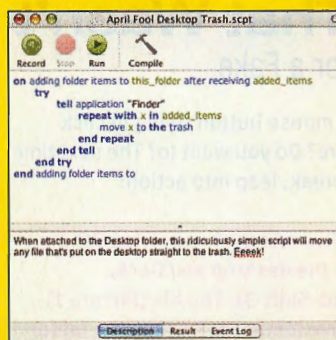
Turn the Desktop into a Trash Bin

No one likes a messy desktop, right? Well, consider this gag a spring-cleaning gone terribly awry. A few deft clicks are all it takes to keep a desktop organized—FOREVER. Aaaaieeeeeeee! (Warning: This prank is truly evil, so it's best to hang around your victims and stop them from emptying their Trash—at the very last minute, of course.)

- ① Copy the file April Fool Desktop Trash.scpt from the Disc to your victims' Library > Scripts > Folder Action Scripts folder.
- ② On a Panther system, Control-click the desktop and choose Attach A Folder Action from the contextual menu. (If the option doesn't appear, first choose Enable Folder Actions.) When prompted for a script file, choose April Fool Desktop Trash.scpt. For Jaguar, setup's a little trickier; go to Applications > AppleScript and double-click Script Menu.menu (this adds an AppleScript menubar

item). Go to the AppleScript menu and select Folder Actions > Enable Folder Actions, then select Folder Actions > Attach Script To Folder. Choose April Fool Desktop Trash.scpt.

Now anything placed on the desktop will immediately wind up in the Trash. When you tire of watching your victims try



to download the same installer for the 60th time, Control-click the desktop again (or go to the AppleScript menu) and choose Remove A Folder Action.

It's a dirty, nasty prank, but someone's got to play it.

Old-School Smackdown

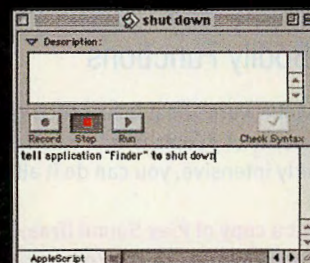
X rules, but Mac OS 9 is perfectly prankable in its own right. Relive the classics.

AutoBlast Make the Mac spew bad music upon startup. Enable Audio CD AutoPlay in the QuickTime Settings control panel, max out the volume, pop something embarrassing into the CD-ROM drive, and shut down. When the prank is triggered, you'll hear it. Run.

Startup Shut Down Your victims boot up, their Mac shuts down—lather, rinse, repeat. To pull this off, enter a line of AppleScript into Script Editor: `tell application "Finder" to shut down.` Save the script as an application, and toss it into the Startup Items folder inside the System Folder. (To fix things, grab the script from the Startup Items folder—fast—once the Mac boots up.)

Oooh, Baby Baby Did you know you can set a movie to play during startup? Rename a QuickTime movie *Startup Movie* and drop it into the System Folder, then shut down. When the Mac boots, the movie will play when the QuickTime extension loads. For added depravity at work, choose cheesy '70s porn...and make sure the volume's turned up.

Start up. Shut down.
Start up. Shut down.
And so forth.



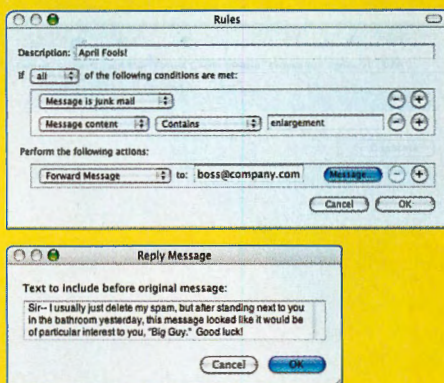
An Actual Use for Spam

"Here, Boss, I Think You Need Some Viagra."

Unsolicited commercial email: the bane of everyone's online existence. We're not going to get rid of it, though, so why not take the lemons life hands you and make lemonade?

1 **Sneak some time on your coworkers' Mac and open Mail's preferences. Bring up the Rules pane and click Add Rule. Name it April Fool.**

2 **Set the rule to trigger when All conditions apply, and select the following two conditions: 1) Message Is Junk Mail and 2) Message Content Contains. Choose a word or phrase for that second condition that's specifically embarrassing to the boss, such as**



Who knew spam could be so delicious?



baldness, potency, or weight loss.

3 **Set the action to Forward Message and enter the boss's email address. Click the Message button and enter a note from your victims to add to the forwarded spam—something like "You could really use some of this, you fat, bald, impotent weasel."**

4 **Click OK, drag the new rule to the top of the list, and close Preferences.**

This is a time-delay prank. When your victims finally get some spam that contains the trigger phrase you entered, Mail will forward the message to the boss with your little love note included.

Of course, we're not really suggesting that you'd ever do anything so malicious as try to get your coworkers fired as an April Fools' Day gag. Then again, what the heck? By the time they figure out what you did, your victims will have been forcibly removed by security. Dibs on their office!

Wy Cnt IType Anmre?

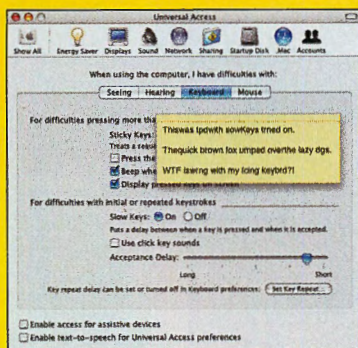
Make Keystrokes Drop Like Crazy

Ah, Universal Access: truly the Mac Prankster's best friend. Once again, Apple's hopes of helping the differently abled provide us with a means by which we may smite our enemies. And hey, what's funnier than watching people go slowly insane when they find their typing skills aren't what they used to be?

1 **Open Universal Access system preferences. Click the Keyboard tab.**

2 **Turn on Slow Keys and uncheck the Use Click Key Sounds box. Set the Acceptance Delay slider almost (but not quite) all the way over to Short. In testing, we found that about 7/8 of the way across worked well.**

3 **Close System Preferences and watch your victims slowly descend into madness.**



Universal Access strikes again.

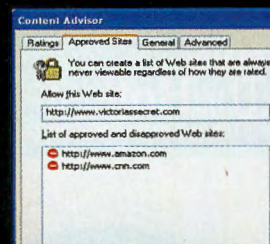
What you've done is tell the Mac to ignore any keystrokes whose duration is shorter than the specified time. Since you set the slider close to Short, most keystrokes will work fine, but occasionally your victims' Macs will drop quick keystrokes—seemingly for no reason. The afflicted will first suspect their typing skills, then their keyboard, then mischievous poltergeists, and finally cosmic rays beamed into their skull by government satellites. Watch mental health authorities drag them away screaming in a straitjacket. It's a hoot!

Windows Wackiness

On this holiest of holy days, why discriminate against Windows users? Share the pain!

Can't Get There from Here

This one makes your victims' browsers refuse to load common Web sites. Launch Internet Explorer, go to the Tools menu, and select Internet Options. Under the Content tab, enable the Content Advisor, and then click the Approved Sites tab. There you can enter as many common Web sites as you can think of into the box for approved and disapproved Web sites (don't forget their home page and bookmarked sites!) and set them all to Never. Suddenly the World Wide Web just got narrower.



Web Nazi says, "No books, news, or lingerie for you!"

Acid Flashback Give the mouse pointer a groovy trail—it's a feature, Microsoft says so! Click Start and choose Control Panel, then double-click Mouse to open Mouse Properties. Under Pointer Options, set the pointer speed to the fastest it'll go, then click the Display Pointer Trails check box and set them to be as long as possible. It's like mousing under the combined influences of crystal meth and LSD—which, come to think of it, might actually make using Windows somewhat closer to bearable.

Jack Miller can usually be found yammering on about all things Mac at As the Apple Turns (www.appleturns.com). His Macs are guarded against April Fools' intruders by an Attack Toddler named Anya.

36 REVIEWS

better living through smarter shopping

MacAddict RATINGS



You'll be blown away.



You'll be impressed.



You'll be satisfied.



You'll be disappointed.



You'll be pissed off.

Though they're not what we'd colloquially call music to our ears, Apple's In-Ear Headphones (shown here) sure look cool. More important, and to the aural relief of everyone within earshot, they delivered our GarageBand compositions discreetly to our inner ear. The 'phones did a good job of canceling out the key clatter of the retro Tactile Pro Keyboard we reviewed—but that racket was also drowned out by the sonic mayhem we forged with the over-the-top audio app Absynth 2. In the near future, we'll get creative with some prosumer video gear and pay the piper with the help of some newly revved financial software.


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PLUS:

TheHotList

51 The best of the best from recent reviews.

 Compatible with Mac OS X or later.

 Compatible with Mac OS 9 or earlier.



We'd spend our own hard-earned money on this product.

iLife '04

KILLER INTEGRATED iAPPS SUITE



Apple's consumer-level apps are maturing and learning from each other, as evidenced by the iTunes' Rendezvous-powered sharing technology appearing in iPhoto, and the proliferation of awesome slideshow transitions such as Cube and Mosaic Flip, which debuted last year in Keynote. Aside from massive performance improvements in the updated iApps, the best thing about iLife '04 is the addition of GarageBand, Apple's new music-creation app.



iTunes 4.2

Already 0.2 ahead of its iApp 4.0 peers, iTunes 4.2 wasn't upgraded specifically for the iLife '04 release, but Apple has incrementally added new features to it, such as AAC encoding for better sound quality at smaller file sizes, a fast and smart Power Search box in the iTunes window (à la Safari's toolbar Google box), Rendezvous music-sharing over local networks, Smart Playlists that automatically adapt to your listening habits, and the ability to import on-the-go Playlists from the mighty iPod, which works with Macs and Windows machines if iTunes is your MP3 jukebox.

It's hard to complain about something that works as well as iTunes, especially when it's free, but we'd like a way to reorder our Playlists in the Source window—we wish we could put our fave ZZ Top Playlist at the top. We also wish album-artwork sharing were part of the music-sharing feature.

iPhoto 4.0

In version 4.0, iPhoto has finally become a snappy performer. The speed improvement over version 2 (Apple hopped over version 3) is akin to the difference between a geriatric, arthritic mutt and a sleek, fit greyhound—the canine, not the bus. When loaded with

our test collection of 3,200 digital images, iPhoto scrolled, resized, and deleted photos, and switched between Organize and Edit modes almost instantaneously.

When you install iPhoto 4, it updates your earlier iPhoto Library to the new iPhoto 4 format. On our Dual 1GHz Power Mac G4, the conversion process was reasonably speedy—just a few minutes—and when done, a new folder appeared named Recovered Photos. Oddly, many of the photos it tagged as recovered were already ensconced in existing folders, although some were brought back from the Land of the Lost Photos. We forgive iPhoto 4 for erring on the side of caution.

iPhoto 4's new keywords and ratings are easy to assign using menu commands. You can also assign ratings from semi-

transparent onscreen controls during the newly enhanced Slideshow function, which includes slick Keynote-like transitions, such as Mosaic Flip and Cube. You can use ratings, keywords, and date ranges to create Smart Albums that, much like iTunes Smart Playlists, contain images based on criteria you supply via a straightforward dialog.

Editing is marginally improved over iPhoto 2, with the addition of Sepia and B & W (grayscale) modes—although the Sepia mode was a bit yellowish for our taste and B & W tends to produce somewhat washed-out images. The Enhance button worked well on images

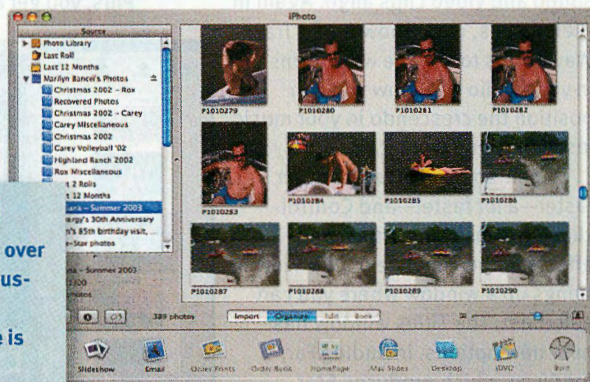
that didn't need much help, but it added excessive brightness and contrast on more-challenging images—we suggest using iPhoto's manual brightness and contrast controls, or using your favorite image editor.

iPhoto 4 also allows you to share your images with other iPhoto 4 users on your network. We strongly suggest, however, that you limit your sharing to a subset of your images and not your entire library, as accessing images from a remote Mac is a time-consuming affair. When accessing our 3,200-image library from a 1.25GHz iMac G4 and a 400MHz TiBook, the file thumbnails uploaded at about 10 per second. iPhoto 4 unexpectedly quit during some uploads to the iMac, and uploading to the TiBook was an exercise in frustration, failing repeatedly. Let's hope iPhoto 5 solves these problems, as the shared Library concept is a solid one.

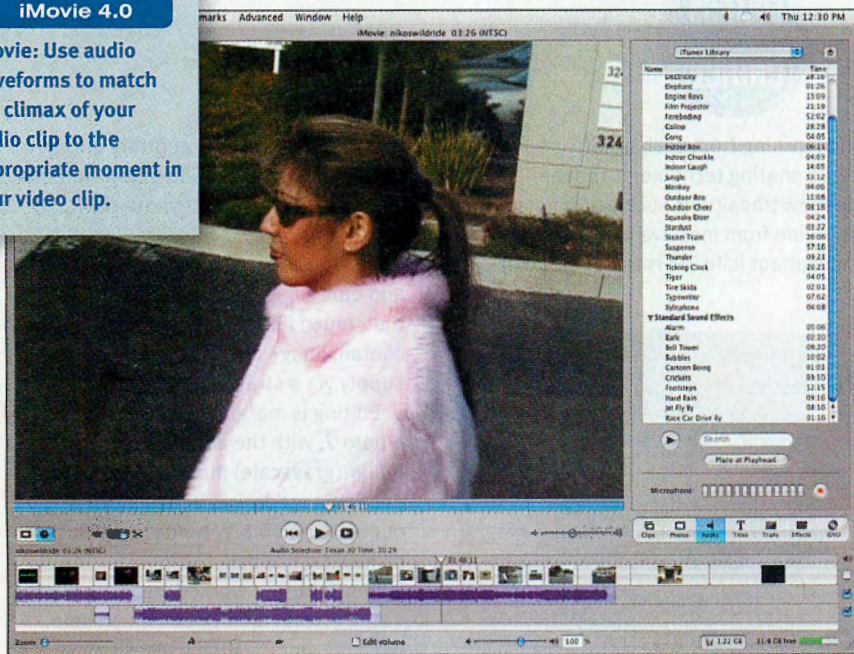
iTunes 4.2
Browsing the boss's music collection would be more fun if we got the album art along with the polkas.

iPhoto 4.0

You can now share images over a network using Rendezvous-based shared Libraries. Unfortunately, this feature is both slow and buggy.



iMovie 4.0
iMovie: Use audio waveforms to match the climax of your audio clip to the appropriate moment in your video clip.



iMOVIE 4.0

iMovie 4.0 brings vast improvements in speed and stability. Titles, transitions, and effects render faster, and interface enhancements make editing within the Timeline truly enjoyable.

You can now trim a clip directly in the Timeline. With the clip selected, position the mouse at its beginning or end, then click and drag to shorten it. To undo, either Control-click and choose Restore Clip from the contextual menu, or simply drag the cursor to lengthen the clip to its original size. To take advantage of another Timeline improvement, go to Preferences and check the box labeled Enable Timeline Snapping. When you then drag audio clips or effects in the Timeline, vertical yellow guides help you line up your sound clip with the beginning or end of a video clip—and you hear a soft “thwack” when your sound and video clips align. Again in Preferences, click Show Audio Track Waveforms to see the waveforms in your audio clip. Now you can position the crescendo in your music just where you want it.

Transitions and Effects render faster—a lot faster—and Control-clicking transitions, titles, and effects in the Timeline or Clip Viewer brings up a window where you can edit them. The Titles window has nifty new options, including Far, Far Away, which produces Star

Wars-style scrolling text, and Clip Image and Clip Video, which show an image or video through knocked-out characters of a title. There are some less-nifty options: Spinner, for example, produces a difficult-to-read spinning block of text. Titles in general are cleaner than they were before but still aren't as crisp as we'd like.

iDVD 4.0

Still the best DVD-authoring software short of Apple's big-league DVD Studio Pro 2 (\$499, www.apple.com), iDVD 4.0's improvements are more apparent in form than in function. You get 20 new themes, ranging from a basic-black theme to a drive-in movie theme, complete with ambient-light flicker. Some, such as the wedding series, are simple and refined, while others are pure fun. Plus, you get all of the

old iDVD themes—sadly, even the lame Sports one. As before, the themes are completely customizable, and you can save your custom themes as favorites to reuse in other projects.

The big functional improvement is Map view: You can now browse a DVD project by folder hierarchy, the same way you do a Finder window's directory tree in List or Column view. Double-clicking a thumbnail image in Map view instantly takes you to the appropriate screen in your project, making navigation much faster and more convenient than before.

GARAGEBAND 1.0

Don't let GarageBand fool you. Hidden beneath the deceptively simple interface of Apple's newest member of the iLife team is a versatile and potent music-creation, recording, and editing app. Although it's designed for the digital-music newbie, it has enough depth to satisfy the creative cravings of a broad range of musicians, and it's great for quickly sketching out ideas or providing yourself with virtual rehearsal sidemen.

Don't let Apple's quoted system requirements fool you either. GarageBand is the most resource-hungry consumer-level app we've ever tested. We ran a broad range of GarageBand projects on seven different Macs—from a Dual 2GHz G5 to a sadly overmatched 400MHz TiBook—and only on powerful G4 and G5 dualies did it perform flawlessly. On lower-powered Macs, we encountered frequent System Overload and Core Audio error messages; on other Macs—even a 1.25GHz iMac—playheads either froze mid-project or skittered unevenly on multitrack projects. The 4,200-rpm hard drives in PowerBooks and iBooks were especially problematic—their slow spin rate made multitrack playback nigh on impossible. If you're serious about multitrack GarageBand projects, a fast Mac is a must.

Installing GarageBand is simple if you have a DVD drive; if you don't, check out www.macintouch.com/garageband.html for workarounds. When you launch GarageBand—which also loads your most-recent project—be

iDVD 4.0
New themes (left) and Map view make it easier than ever to create great looking DVDs.





GarageBand 1.0

A simple and straightforward interface makes adding and editing repeatable musical snippets, called Apple Loops, a snap.

prepared to wait; launching a nine-track project took 30 seconds on a Dual 1.25GHz G4 and a full minute and a half on a 400MHz TiBook.

Once GarageBand is up and running, choose from one of the included 1,000-plus Apple Loops in the selection window at the bottom of the main interface, and then click the name of the loop to audition it. If you like the loop, drag it into a track, above. If you want the loop to repeat, click its upper-right corner and drag it out to the point where you want it to stop. You can place multiple loops sequentially in the same track or give them each a separate track—but if you choose to pan a track to the left or right, or change its master volume, the change will effect the entire track. You can trim, transpose, and edit loops, whether they are created from sampled real instruments (colored blue) or MIDI (which controls what Apple calls GarageBand's Software Instruments, colored green). You can edit MIDI loops note by note—though selecting a note with your cursor is sometimes a hit-or-miss affair. You can also double-click the instrument icon in each track to open the Track Info dialog; click the Details triangle, and go nuts adding different effects to that track.

If you want to record your own music, GarageBand includes an onscreen keyboard—but don't expect to create anything but rudimentary compositions with it. To fully exploit GarageBand's recording capabilities, connect a USB

MIDI keyboard to your Mac to record fully editable MIDI parts using any of the 50-plus software instruments. GarageBand includes a diverse set of great-sounding instruments to round out missing players—we especially liked the realism of the acoustic guitar, grand piano, orchestral strings, and tenor sax instruments. If you sing, play guitar (the amp-simulation effects provide great creamy and crunchy tones sans amp), or jam a mean set of spoons, connect a mic or instrument to your Mac's audio input (with a 1/4-inch to 1/8-inch phono adapter) or else via a USB or FireWire audio interface, and record a live audio performance. Unfortunately, most of our lower-powered Macs could only handle a couple of recorded-audio tracks before playback sputtered to a quick death.

Overall, GarageBand is a blast, but it suffers from the version 1.0 blues. Here's hoping that, like iMovie and iPhoto, GarageBand's performance improves in versions to come.

ALL TOGETHER NOW

Integration is greatly improved in iLife '04—huge iTunes and iPhoto libraries appeared instantly when we loaded their respective media shelves in iMovie or iDVD. However, there's still room for growth—for example, you still have to return to iTunes to create custom Playlists for iPhoto or iDVD slideshows. We're disappointed that iTunes remains the only free and downloadable piece of iLife—the other iApps are available only in the retail box or preinstalled on new Macs. Whether you need an excuse to buy a new Mac or have an extra \$49 kicking around, get iLife '04. It's totally worth having.—the MacAddict staff

iLife '04

INTEGRATED IAPPS SUITE

COMPANY: Apple

CONTACT: 800-795-1000 or 408-996-1010, www.apple.com

PRICE: \$49 (or bundled with new Macs)

REQUIREMENTS: 600MHz G3 or faster for GarageBand, G4 or faster for GarageBand Software Instruments, 733MHz G4 or faster for iDVD; 256MB RAM; Mac OS 10.2.6 or later; 4.3GB disk space for entire suite, 250MB for iTunes, iPhoto, and iMovie only

GOOD NEWS: Snappier performance. More and better integration. Awesome new slideshow transitions. Smart Albums and Playlists.

BAD NEWS: GarageBand and iDVD require mega-Macs.

Can't create new Playlists outside of iTunes.



iPhoto 4.0



GOOD NEWS: Massive speed and organizational improvements. Cool new slideshow transitions.

BAD NEWS: Slow and buggy photo sharing.

iTunes 4.2



GOOD NEWS: Rips MP3, AAC, AIFF, and WAV audio files. Gateway to the iTunes Music Store.

BAD NEWS: Needs better Playlist management. Music Store needs more classical music.

iMovie 4.0



GOOD NEWS: Faster, more stable, and easier to use than previous version.

BAD NEWS: Titles still bleed.

iDVD 4.0



GOOD NEWS: Slick new themes. Large projects easier to manage with Map view.

BAD NEWS: Performance still somewhat clunky.

GarageBand 1.0



GOOD NEWS: Easy to use. Excellent sound on most loops. Exceptionally versatile.

BAD NEWS: Enormous resource hog. Records only one track at a time. Can't change time signature mid-song.

E-1

INNOVATIVE 5-MEGAPIXEL DIGITAL SLR CAMERA



Flagship of the emerging 4/3 standard, Olympus's E-1 digital SLR looks, handles, and shoots like a pro.

Though digital SLR cameras possess more features than your average show dog, Olympus adds a brand-new breed to the mix with its E-1, the first fully digital SLR that incorporates the Four Thirds System (aka the 4/3 System; see "The New Standard—Who's In?" on facing page). While it's too early to tell if this new SLR-lens standard will catch on, this first offering is quite the charmer.

The E-1's magnesium-alloy body felt indestructible, and we loved its substantial rubberized handgrip. The camera is "weather-proof," meaning it can withstand rain and dust storms—but don't take it out for a swim. Camera settings are easy to access on the body—no having to hunt and peck through confusing software menus—and you

can also customize button and dial behavior. Brownie points go to the sturdy hinged doors that conceal the media slot and the USB, FireWire, and video-out ports (we hate those flimsy rubber stubs on most digital cameras).

On the inside, the E-1 houses a 5.1-megapixel CCD (6 megapixels would make it a stronger competitor) and can capture RAW, TIFF, and JPEG images to a CompactFlash card or Microdrive. It also features auto and manual exposure controls; digital-ESP, center-weighted, and spot metering modes; 3-point AF (auto focus); a sensitivity range of ISO 100 to 3,200 (with ISO Boost on); preset and manual white-balance settings; exposure compensation with variable EV; flash compensation (with an optional

Olympus flash unit); noise reduction; bracketing; histogram display; and the quirkily-named Supersonic Wave Filter, which is essentially an electronic dust-buster for the CCD.

The camera ships with a rechargeable Li-Ion battery (which had excellent life in our tests), a charger, and FireWire, USB, and video cables. No media card is provided, but that's not uncommon with SLRs. Olympus also supplied us with a range of 4/3-type lenses for testing, including a 14mm-to-54mm standard zoom lens (equivalent to a 28mm-to-108mm film lens, \$599) and a 50mm-to-200mm telephoto lens (equivalent to a 100mm-to-400mm film lens, \$1,199)—you need to invest in one or more lenses since film lenses won't work with this camera.

The E-1 was quick to focus in auto mode, and focusing via the manual focus ring was trouble-free, thanks to the clarity of the viewfinder. Write times to an Ultra CompactFlash card were exceptionally speedy, and the camera's generous 128MB buffer never kept us waiting. Burst speeds were good in sequential shooting mode—3 frames per second up to 12 successive images.

The camera produced richly detailed and well-balanced exposures, though it did tend to expose images a bit on the bright side in auto mode. Color was accurate—even in auto—and there was little noise at lower ISO settings. Our only real beefs were that our images were a



If you're feeling lazy, the E-1 is highly capable of producing nice exposures with good color accuracy in full auto mode.



COMPANY: Olympus
CONTACT: 800-622-6372,
www.olympusamerica.com
PRICE: \$2,199 (MSRP; body only)

REQUIREMENTS: USB- or
FireWire-equipped Power Mac,
Mac OS 9.x or later

GOOD NEWS: Beautiful exposures. Good color accuracy. Incredibly fast write times. Intuitive interface.
BAD NEWS: Some image softness. Lower resolution than the competition. Expensive. Not-yet-standard lens type.

MacAddict RATED
●●●●●
AWESOME



We were pleased with the absence of noise in some of our low light shots, though the camera has an effective noise reduction feature when you really need it.

bit soft and that higher ISO settings (800 and up—settings we don't normally use) made our images look like sandpaper.

Though we enjoyed shooting with the E-1 and recommend it, its fate depends on whether the 4/3 System becomes more widely adopted and whether those who've invested bucks into existing SLR lenses will switch over. It's an expensive endeavor, but you'll be pleased if you choose to explore it.—Kris Fong

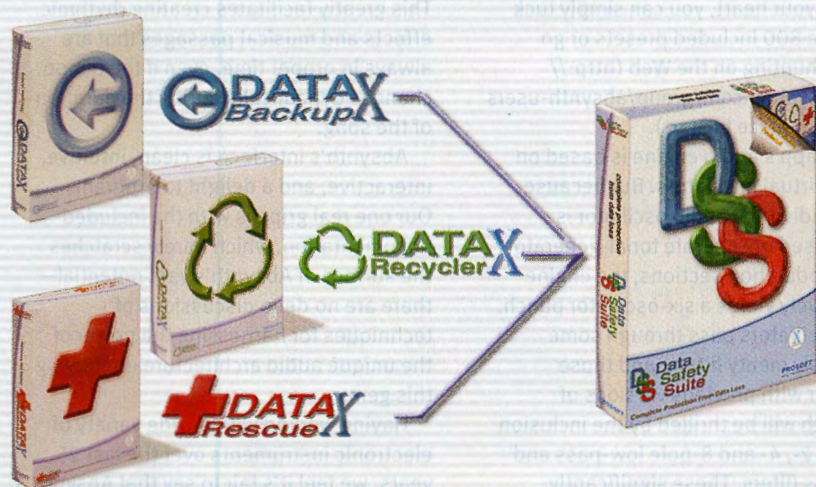
A NEW STANDARD—WHO'S IN?

When it comes to digital SLR cameras, most camera bodies only take lenses built from the same camera manufacturer. The problem is that these lenses are built for 35mm film use, not for shedding light onto an image sensor like a CCD or CMOS. Film camera lenses admit light from all angles while image sensors need direct, head-on light to be effective. Because light along the periphery of a lens tends to stream in at an angle, sometimes the image sensor's perimeters don't receive adequate light—this can result in dimness and color inaccuracies along the resulting image's edges. (Note: We didn't notice any degradation along image borders in any of the digital-SLR/film-lens images we shot for "Digital Camera Shoot-out," Dec/03, p22.)

Olympus and Kodak hope to change all that with their jointly developed 4/3 System. This new digital SLR open standard is 100-percent digital and allows photographers to interchange any 4/3-type body with a 4/3-type lens, regardless of the manufacturer. The 4/3-type lenses allow optimal light to hit image sensors straight on. The technology also allows manufacturers to design cameras with bodies smaller than non-4/3 System SLRs and lenses that equal their film counterparts.

The Olympus E-1 is the first camera to adopt this standard and Olympus has already created a line of accessories (lenses, flashes, and power holders) that are due out in 2004. Kodak plans to unveil a 4/3 product line, and Fuji has agreed to participate. No word yet on whether Canon, Nikon, Minolta, and others will join in, so if you do choose to invest in a 4/3 System, know that your lens choices may be limited at least for the time being.

Three award-winning products • Now available in one powerful package



Data Safety Suite

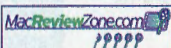
Backup, Undelete and Recover your valuable data

Data Safety Suite is your best protection against data loss.
Judge for yourself. Download a fully functional demo today at www.prosofteng.com/dss

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engineering inc.
www.prosofteng.com



Data Backup

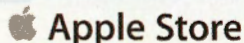


Data Recycler



Data Rescue

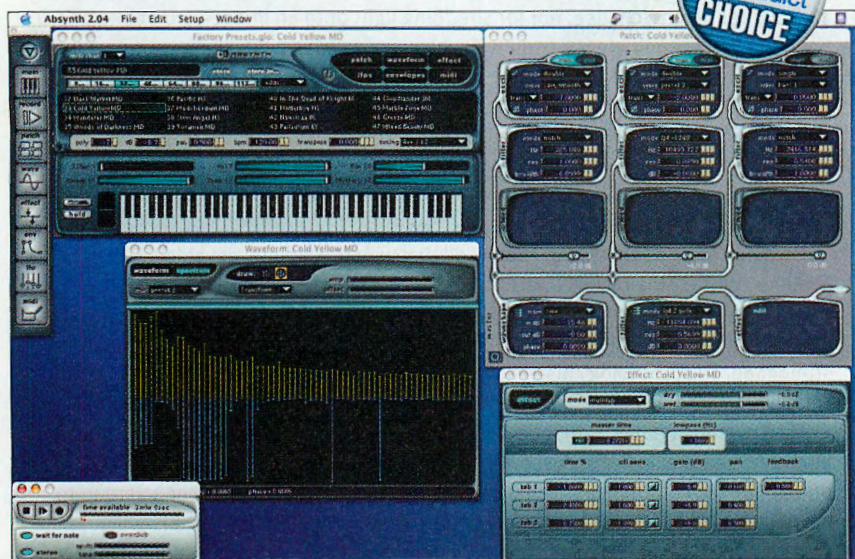
Data Safety Suite is available at



or call 1877-4PROSOFT

Absynth 2

AWESOME SOFTWARE SYNTHESIZER



Whether you're tickling the onscreen ivories, twiddling the oscillator knobs, or geeking out with the waveform editor, Absynth 2 delivers total sonic Nirvana.

The raw power of the Velocity Engine has brought forth a slew of seriously enticing software-based synthesis sirens, but none could justify turning a Mac into a dedicated synthesizer until now. Absynth 2 is, hands down, the most capable MIDI software synthesizer available—it can create sonic magic and mayhem like no other hardware or software.

Perhaps the most important addition to this second generation of Absynth is native Mac OS X Core MIDI and Core Audio support. Absynth 2 runs both as a standalone instrument and as a VST plug-in (at press time, RTAS and Digital

sequencer for multitimbral operation.

Absynth's technical underpinnings will be familiar to anyone who's ever programmed an analog or digital synth—but if the word *program* strikes fear in your heart, you can simply tuck into the 800 included presets or go patch-hunting on the Web (<http://groups.yahoo.com/group/absynth-users> is a great place to start).

The app's audio engine is based on three virtual oscillators. But because each individual audio oscillator is comprised of separate tonal-generator and modulation sections, the engine effectively yields a six-oscillator punch. The oscillators pass through some seriously meaty filters, and those familiar with previous versions of Absynth will be thrilled by the inclusion of new 2-, 4- and 8-pole low-pass and all-pass filters. These significantly expand the overall tonal palette and allow you to emulate a variety of classic analog-filter sounds. Another critical new addition is the ability to load sampled waveforms as oscillators,

opening up the vast harmonic opportunities afforded by using any recorded sound as the foundation for your own sonic flavorings. While it can't replace a dedicated sampler, you can use Absynth for many of the types of applications normally associated with sampling, such as deploying natural drum kits or orchestral effects. Also tied into the sampled audio support is a new toy called Granular Sampling, which applies a form of particle system (normally associated with visual special effects) to a sampled sound. This creates a cloud of sound, which you can use solo or in conjunction with synthesized oscillators to create some of the most massive, animated aural explosions ever heard by human ears.

Musicians who want to link up their synth burlings with the overall beat and tempo of a song will love the newly added Sync to Song Tempo, which takes LFO (low-frequency oscillator) and envelope controls and automatically synchronizes them to the tempo dictated by the MIDI clock on your sequencer. This greatly facilitates creating rhythmic effects and musical passages that are always in proper time, even if the tempo changes dynamically during the duration of the song.

Absynth's interface is clean, intuitive, interactive, and a delight to program. Our one real gripe is with the included documentation, which barely scratches the surface of Absynth's vast potential—there are no deep discussions of techniques for harnessing the power of the unique audio architecture underlying this gem.

Having worked with a wide variety of electronic instruments over the last 25 years, we feel it's fair to say that Absynth is a unique beast, and an inspiring source of original, fresh, and funky sounds. It could easily be our desert-island synth and is a clear Editor's Choice.—David Biedny

Absynth 2 is, hands down, the most capable MIDI software synthesizer available.

Performer support was planned but not shipping). Absynth 2 can still play only one patch (that's Absynthian for *synth sound*) at a time, but you can load up to 16 separate simultaneous instances of it as a VST plug-in from within your



COMPANY: Native Instruments
CONTACT: 866-556-6487,
www.native-instruments.com
PRICE: \$299

REQUIREMENTS: 400MHz G3 or faster running Mac OS 9.2.2 or later, or 400MHz G4 or faster running Mac OS 10.2 or later, 256MB RAM

GOOD NEWS: Unique aural capabilities. Sampled sound support. New filter types. Core Audio and Audio Units support.
BAD NEWS: Inadequate documentation.

MacAddict RATED
AWESOME

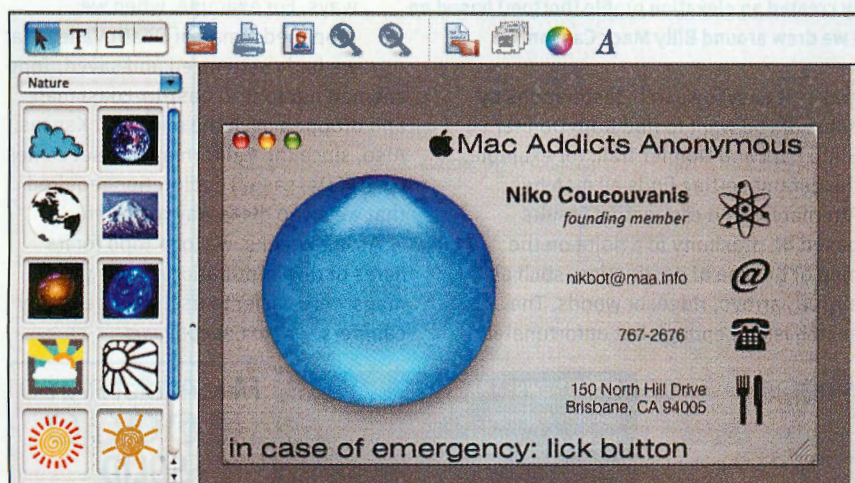
Business Card Composer 2

SMALL-SCALE DESIGN SOFTWARE

Do-it-yourself business cards: a great idea that can go horribly wrong. Business Card Composer offers you a little help by providing decently designed templates that you can customize with your own personal information. The more ambitious, artsy-cardsy types can either tweak any design element of a provided template

a print shop, plus templates for printing up to 10 cards on a sheet.

Once you get to the composition window, you can reposition, add, or delete text fields on the card and dig into Composer's typographic adjusters to tweak the font style, size, kerning, baseline, and stacking order (stacking order also works on selected graphics).



Business Card Composer can make any old schmo look like a pro.

or start from scratch using backgrounds and clip art from the app's libraries.

Business Card Assistant organizes its starter templates into eight categories (such as Business, Macintosh, and Photo Designs), each with 10 to 24 variations on the theme. Once you settle on a design, click the Next button, and Composer will automatically enter your personal info from Address Book.



From there, choose from a long list of print layouts, which includes a one-up option for sending to

A handy Font window gives you access to formatting options such as font style, size, underlining, and drop shadows. Missing are graphical tools for doing free-form design on the card canvas, but you can import your own graphic files. Most of the provided graphics have transparent backgrounds, but some backgrounds are white, limiting usability.

Business Card Composer is a fast, easy way for you to look like you know what you're doing—both when you're designing the card and when you're handing out the final product. —Niko Coucouvanis

COMPANY: BeLight Software
CONTACT: +380 48 738 58 40 (Ukraine),
www.belightsoft.com

PRICE: \$39.95
REQUIREMENTS: Mac OS 10.2 or later

GOOD NEWS: Decent designs and graphics. Very easy to use.
BAD NEWS: No G5 or Panther clip art. White background limits usability of some clip art.



my company
can't afford the risk
of DATA THEFT
... can yours?



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ERASE THE RISK



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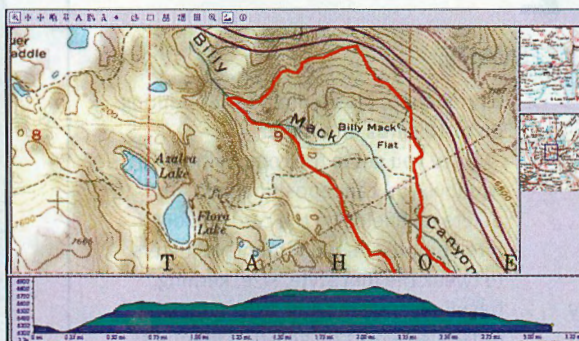
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Topo! State Series

UNWIELDY TOPOGRAPHICAL MAP SOFTWARE

Imagine a gigantic interactive map of the entire U.S. of A. That's the premise of National Geographic's Topo series of topographical maps. The base Topo app provides a map of all 50 states at up to 1:327,360 scale, and each \$99 set covers an entire state or group of states at up to 1:15,375 scale—that's about 4.5 inches per mile. The idea of a seamless map that we can zoom in on and mark up with waypoints, trails, campsites, Porta Potties, text annotations, and more may sound great, but the reality of creating a user-friendly, interactive 3,537,438-square-mile map is still apparently beyond mere mortals.

The content itself is fabulous. Genuine USGS topographical maps include digital extras like optional relief shading, a customizable grid, and visual elevation profiling. The Topo place finder



Topo happily created an elevation profile (bottom) based on the red trail we drew around Billy Mack Canyon.

makes it easy to search destinations by name. If you want to find both Donner State Park and Donner Trail, for example, the default setting finds all matches. Alternately, you can restrict results based on proximity to a point on the map or by type of destination, such as airport, arroyo, ridge, or woods. The search is fast enough but unfortunately

doesn't cover any of the named markers (or anything else) you add to the map.

Valuable as the information Topo provides is, its interface is often frustrating to use. We experienced a few random crashes and slow map-drawing—even on our 1.8GHz Power Mac G5. Plus, the map browser's clunky travelling tool is a poor substitute for proper scroll bars.

Topo also frustrated us in other ways. For example, when we reopened a map of Death Valley that we had customized and saved, Topo zoomed out to the coast-to-coast map and dropped us in the middle of Kansas. Also, since the California state set comes on 10 CDs, casual exploration required that we swap disks way too often.

As map geeks, we love Topo for its acres of raw information. If only the maps were easier to use, we'd be happy campers.—*Niko Coucouvanis*



COMPANY: National Geographic Maps
CONTACT: 800-962-1643,
www.nationalgeographic.com/topo
PRICE: \$99.95 (per state or group of states)

REQUIREMENTS: Mac OS 9.x or
10.2 or later

GOOD NEWS: Awesome topo maps you can
annotate and print.
BAD NEWS: Map browser needs work.
Requires tons of disc swapping.

MacAddict RATED
●●●●●
SOLID

G5 Skateboard

HOT G5 WHEELS

Stick another feather in Dr. Bott's cap. The venerable distributor of cool Mac products has done it again, this time with a set of wheels aesthetically worthy of the Power Mac G5. The G5 Skateboard tucks suavely under the G5; screw-on plates let you clamp the skate between the Mac's two bottom handles, giving you that slick Formula-One-meets-low-rider look.

Like a Ferrari, the G5 Skateboard rolls smoothly forward and backward but has a very limited turning range—none, actually—so turning or rotating the tower to access its backside is fairly impossible. Bottom line: This rig looks so good, we hardly care if it rolls at all.—*Niko Coucouvanis*



Make your G5 look even faster.



COMPANY: Dr. Bott
CONTACT: 877-611-2688 or
503-582-9944, www.drbot.com
PRICE: \$129

REQUIREMENTS: Power Mac G5

GOOD NEWS: Awesome design.
BAD NEWS: Doesn't turn.

MacAddict RATED
●●●●●
GREAT

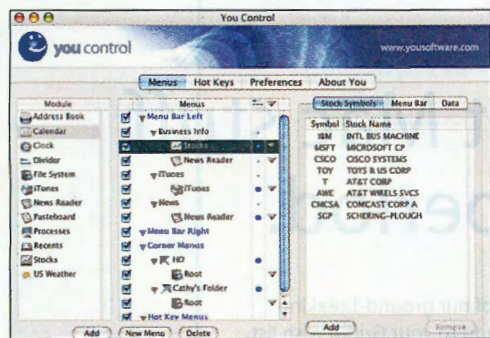
You Control

HANDY MENU UTILITY

You Control is the kind of software utility that excites us—and believe us, that type of thing doesn't happen often. You Control puts a bunch of useful functionality into the Mac OS X menubar, giving you quicker access to information. Unfortunately, it's also clearly a version 1 release.

Via the You Control interface, you select which modules you want to appear in your menubar. For instance, the Address Book module gives you access to all your contacts and lets you search by letter—without ever requiring that you open up Address Book. Stocks gives you updated info from the Web on how your investments are doing. There are also modules for weather, a clock, a calendar that works with iCal, news, and more.

And while having your contacts or stocks available to you from the Finder is nice, that's just the appetizer. The iTunes module puts controls in the menubar so you can play, pause, go forward or back, and search by Playlists, album, artist, genre, and recent—without having to open up that



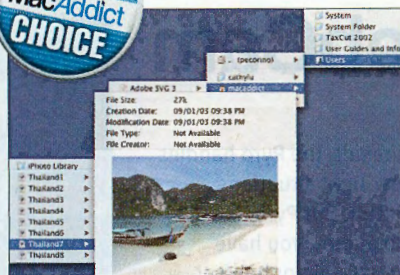
Use the You Control interface to tweak your menus.

honkin'-huge iTunes window. Pasteboard holds multiple clipboard contents (text, not graphics), and at any time and from any app, you can paste in a piece of text you cut. Unfortunately, it doesn't retain cut items if you restart your Mac.

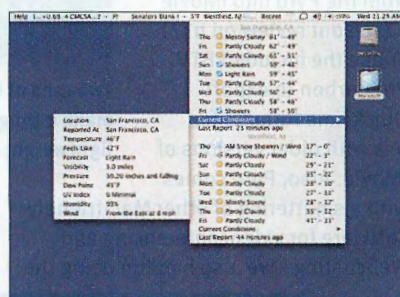
COMPANY: You Software
CONTACT: 800-968-2968 or 503-973-6060,
www.yousoftware.com
PRICE: \$49.95

GOOD NEWS: Great concept. Truly useful. Start of something cool.
BAD NEWS: Limited number of modules. A little buggy.

EDITORS'
MacAddict
CHOICE



The File System module lets you maneuver deep into the heart of your system, without leaving your desktop.



Get the bad news in advance.

You can store modules in the menubar, and you can place menus in all four corners of your screen—this is a particularly good place to store File System modules, which give you a navigable hierarchy of your system and even render previews of most files. We put our whole hard drive in the upper-left corner and placed a folder containing all of our current work in the upper-right corner. It was sweet, although the navigation through these folders wasn't as snappy as we'd like. Plus once or twice You Control didn't start up at login (even though it's a login item), leaving our menubars naked.

And while we're complaining, You Control's interface is not as intuitive as it should be, and you're limited to the modules You Software provides (module development is not open to third parties at this point). Quirks and bugs aside, though, we love this program, and we'll love it even more when it's polished.—Cathy Lu

REQUIREMENTS: PowerPC or faster,
 Mac OS 10.2 or later

MacAddict RATED
 ○○○○○
SOLID

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Pyro 1394 WebCam

UNSTABLE FIREWIRE WEBCAM

The Webcam craze may have come and gone, but Apple's iChat AV videochat app is driving low-res video back into the limelight. iSight may be the gold standard for Webcams, but ADS Technologies' Pyro 1394 WebCam captures video well enough. The bad news is that its included heavy FireWire cable makes Pyro's lofty perch rather precarious.

The obvious question: Does the Pyro cam work with iChat AV? Absolutely. We plugged it into our PowerBook, and before we got the included software CD into the SuperDrive, the PowerBook detected the Pyro and fired up iChat AV. The Pyro cam's video is a bit more light-sensitive than the iSight's, and as

a result, the Pyro handles low-light situations better. But Pyro doesn't do audio—you have to BYO microphone or use your Mac's built-in voice garbler.

You can pipe video from the Pyro into iMovie 4 (see our review on p37) or use the included BTV Pro Carbon to export QuickTime formats for use with older versions of iMovie. Also, Pyro comes with a smattering of other Mac-friendly software for videoconferencing and Webcasting—we also had fun using the



Two tons of FireWire cable make it tough to position this lightweight Webcam.

cam with ToySight (see our review on p50).

What we hate about this cam is its lack of stability; its hefty FireWire cable makes it nearly impossible to position the cam exactly where you want it—unless by happy coincidence you want it exactly where the FireWire cable lets it rest. It might stay put on top of a big CRT monitor if you're lucky (or good with duct tape), but there's really no way

to place the Pyro cam on an iMac, Cinema Display, or any flat-panel LCD.—Niko Coucouvanis



COMPANY: ADS Technologies
CONTACT: 800-888-5244,
www.adstechnologies.com
PRICE: \$70 (street)

REQUIREMENTS: FireWire-
equipped Mac

GOOD NEWS: Good picture. Good software bundle.

BAD NEWS: FireWire cable heavier than cam and tripodlet combined.

MacAddict RATED
●●●●●
50-50

PHOTOGRAPH BY MARK MADEO

We make the coolest Mac stuff on the planet - period.

For over ten years **Griffin Technology** has created smart, beautiful and original accessories for the Mac and now iPod. Every day we are dreaming up new ways of making you say "Wow."

Here are a few of our ground-breaking accessories to add to your Griffin wish list. From the drop dead beautiful PowerMate to the classic iMic, we set the standard for the coolest Mac stuff in the world.



PowerMate **\$45** USB MultiMedia Controller Knob

- Now in Brushed Aluminum and Black
- Great control for iTunes or iMovie
- Programmable for any application
- Replaces repetitive keystrokes

Tactile Pro Keyboard

LOUD INDUSTRIAL-STRENGTH KEYBOARD

Based on the same Alps keyswitching mechanisms found in Apple's Extended Keyboard of the platinum era, the Tactile Pro adds modern conveniences like dual USB 1.1



Possibly the loudest keyboard ever.

ports, volume-control and CD-eject buttons, special characters imprinted on the keys (in case you forget that Option-2 creates the trademark symbol), the return of the Power button, and a pearly white finish.

If you yearn for the hyperresponsive, crunchy keyboards of old, Tactile Pro is your 'board. —*Niko Coucouvanis*

COMPANY: Matias

CONTACT: 888-663-4263,
www.tactilepro.com

PRICE: \$99.95

REQUIREMENTS: USB-equipped Mac

GOOD NEWS: Finally, a keyboard with some crunch. The Power button is back.

BAD NEWS: Loud key-clatter may annoy coworkers.

MacAddict RATED



SOLID

In-Ear Headphones

ILL-FITTING IPOD EARBUDS

They sure look cool, but when these tiny earbuds are snugly seated inside your ear canals, the sound is only marginally better—somewhat clearer bass and suppressed ambient noise—than that of the iPod's stock earbuds.



Not worth the trouble.

The uncomfortable little buggers also tend to slowly work their way out of your ear canals—and we tried all three of the different-size soft-plastic earpiece covers that Apple includes in the box.

Your \$40 will be better spent on over-the-ear headphones. —*Rik Myslewski*

COMPANY: Apple

CONTACT: 800-795-1000 www.apple.com

PRICE: \$39

REQUIREMENTS: iPod or audio device with 1/8-inch audio out

GOOD NEWS: Cool looking. Decent sound.

BAD NEWS: Difficult to keep in ears. Only marginally better sound than stock 'buds.

MacAddict RATED



SO-SO

iTrip

FM Transmitter for iPod

\$35



- Play your iPod through any empty FM radio station from 87.9 to 107.9
- iPod powered - no battery necessary
- Fits beautifully to top of iPod - no messy cables or hanging dongles

iCurve

PowerBook & iBook Stand

\$39⁹⁹



- Raises laptop screen to a more comfortable eye-level height
- Creates room on the desktop for an external keyboard and mouse
- Keeps laptop cool with complete 360 degree air circulation



iMic

USB External Sound Card

\$39⁹⁹

- Adds stereo audio inputs & output to any USB equipped Mac or PC computer
- Includes everything needed to record albums and tapes to make MP3s & CDs
- Plug-and-Play simple, no install required

GRIFFIN TECHNOLOGY
www.griffintechology.com

Storyboard Lite 1.1.7

INNOVATIVE 3D STORYBOARDING SOFTWARE

Most storyboarding software includes a library of 2D images you can arrange to visually plan key shots for your film or video shoot. Storyboard Lite takes your storyboard into the third dimension by including prefab 3D objects as well. Storyboard is a great tool for storyboarding, but if you've never used 3D tools before, prepare for a frustrating initiation; it isn't as difficult to learn as most 3D software, but it's far trickier than other storyboarding apps.

Storyboard Lite ships with a small library of well-crafted 3D props and mini sets that you can drag and drop from the app's Prop Browser and Set Browser into a frame to quickly create shot mockups. Via the Image Browser, you can access any images you've imported into the program from your digital camera or another application—this allows you to create your storyboard with photos of the real elements instead of generic buildings and characters.

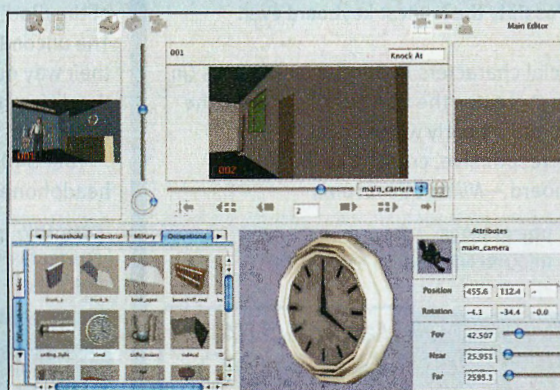
Storyboard's Character Editor lets you assemble characters from basic starting points. For example, you could start by defining your character as a tall adult female with an Asian skin tone, and then move on to detailing that basic character with choices in clothing, shoes, heads, and facial features. Each board has its own lights and cameras that you can manipulate independently, providing the same framing controls a photographer would have when setting up a shot. After you populate your scene boards with 3D objects from the library, you can manipulate their positioning until you get the exact angles and spatial relationships you want. If your shot calls for a shifty-eyed cop flipping off an offscreen character, you can make it happen with Storyboard's Character

Editor and some careful 3D-model tweaking in the main window. Plus, characters remain

editable, so it's easy to adjust when you sober up and change your mind.

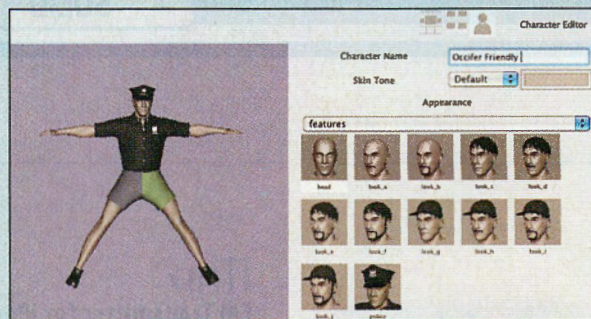
A warning to 3D novices: All of this character, object, camera, and lighting manipulation requires that you have a working familiarity with 3D tools. If

scripts directly into Storyboard Lite to make planning your shots easier. As you place, pose, and position your objects and characters to build your story, you can press the Script View icon in the upper-left corner of the main window



Storyboard Lite's prefab settings, objects, and easy Character Editor made it a breeze to storyboard our workplace documentary *Clock Watcher: A Man. A Cubicle. A Clock.*

Use the Character Editor to create your own wacky actors, like Officer No-Pants here.



you've never worked with a 3D modeling application, it will take you more time to get up to speed with Storyboard Lite than it would with other storyboarding software. The interface is unintuitive, with most functions nestled in the Mac's menubar and just a few cryptic icons. To lower the bar, use Storyboard's preset poses (select Load Pose from the Character menu) to make your characters dance, fight, sleep, pray, and strike other common poses.

Although 3D capabilities are the heart of Storyboard, the app is rounded out with enough basic features to make it a solid tool. You can, for example, import

to load the appropriate scene of your script into the window. You can also set the aspect ratio of your boards to match your shooting format. When you finish, you can export storyboards in a number of display formats, HTML, and QuickTime movies.

The \$500 price tag gets you fundamental storyboarding features and a limited but well-rounded library of vehicles, locations, and characters. Storyboard Lite is a strong application and a great way to plan realistic shots, but if you lack a general familiarity with 3D tools, it may be more trouble than it's worth to use.—Rick Sanchez



COMPANY: Zebra Development
CONTACT: 323-874-6558,
www.zebradevelopment.com
PRICE: \$500

REQUIREMENTS: 400MHz G3, Mac OS X, 256MB RAM, 100MB disk space

GOOD NEWS: Provides a 3D way to plan shots and scenes. Good character models.
BAD NEWS: Difficult to learn. Provides only basic storyboarding features.

MacAddict RATED
GREAT

Indiana Jones and the Emperor's Tomb

ACTION-PACKED ADVENTURE GAME

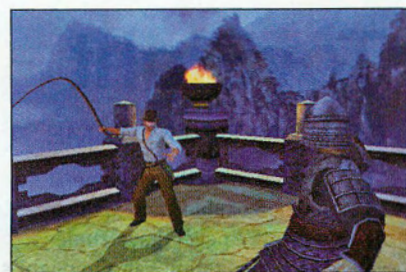
Indiana Jones—the whip-cracking, freewheeling archaeologist and original tomb raider who tore up the silver screen in three top-grossing, action-packed movies—is now poised to reclaim his grave-busting crown in a rousing 3D adventure called *Indiana Jones and the Emperor's Tomb*.

If you're worried that *Emperor's Tomb* is mired in the same rut as some of the bland earlier Indy games, forget about it. *Emperor's Tomb* is a polished effort, crammed with exotic locales, challenging puzzles, and addictive action. As Indy, you scour the world seeking the lost tomb of Ch'in Shih-huang-ti, first emperor of China circa 246 B.C. (You may know him as the real-life kook who buried thousands of recently unearthed life-sized terra cotta soldiers.)

You also seek out an artifact called the Heart of the Dragon, a fabulous black pearl once buried by Ch'in that has the ability to control minds. But there are obstacles: The year is 1935, and a catastrophic world war is brewing—power-hungry political factions, such as nasty Nazis and the Chinese underworld, are seeking the pearl as well. You must fight to get to it first. The search for the tomb takes you to Ceylon, Prague, Istanbul, Hong Kong, and China. Along the way, you explore a ballroom, rooftops, cities, underwater caves, and jungles—and when you whack away vines and undergrowth with

In your travels, you run, jump, climb, swim, somersault, and creep around ledges, and use your bullwhip to latch on to outcroppings so you can swing across chasms. The whip has many uses, including inflicting major damage on foes and snatching guns from their hands.

When you encounter Nazi goons and other enemies, the action is plenty intense but none too complicated. For fighting, you can use your machete or whip, and you have ranged weapons (such as your trusty revolver, enemy Lugers and Mausers, and throwing knives) at your disposal. You can also



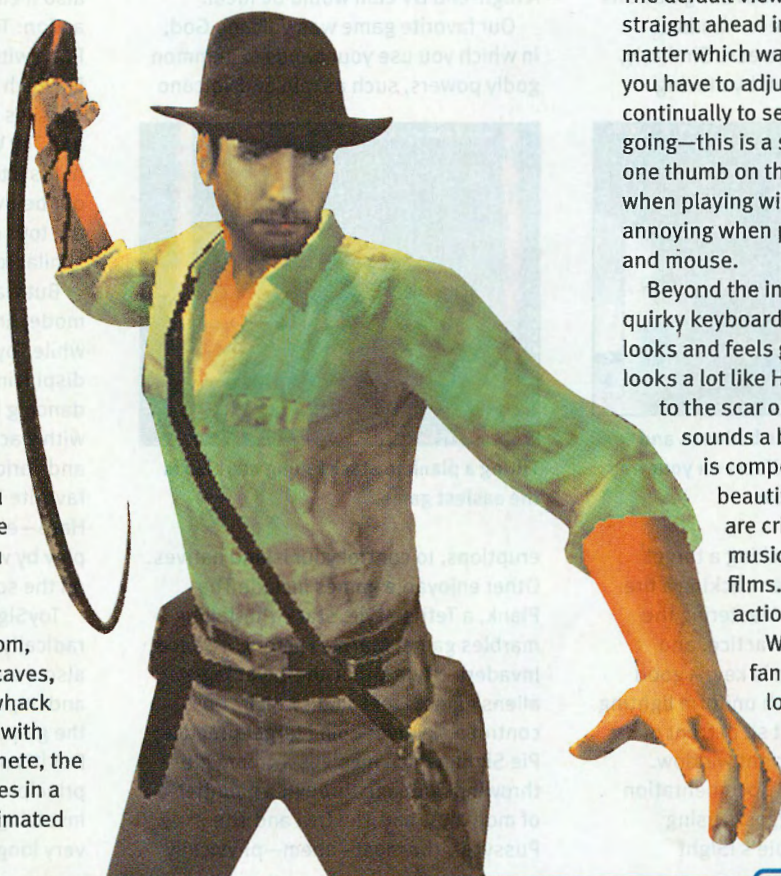
Use your bullwhip to grab things, swing over chasms, or whip the snot out of bad guys.

wade into foes using just your fists, shovels, bottles, chairs, or anything else you can get your hands on.

Unfortunately, this game was originally designed for play on the Xbox using a gamepad. Though it plays well enough on a Mac—especially in the graphics department—the keyboard controls are clunky; we strongly recommend playing with a gamepad. The game's camera view is also screwy. The default view shows you heading straight ahead into the camera no matter which way you're facing, so you have to adjust the camera view continually to see where you're going—this is a simple matter of keeping one thumb on the appropriate button when playing with a gamepad, but it's annoying when playing via keyboard and mouse.

Beyond the inept camera view and quirky keyboard controls, the game looks and feels good. The Indy character looks a lot like Harrison Ford, right down to the scar on his chin—he even sounds a bit like Ford. The story is compelling, backdrops are beautifully rendered, textures are crisp, and much of the music is straight out of the films. Most important, the action is fun.

Whether you're a true Indy fan or just a casual gamer looking for a quality adventure experience, *Indiana Jones and the Emperor's Tomb* should satisfy you. —John Lee



your machete, the foliage flies in a neatly animated fashion.

COMPANY: Aspyr
CONTACT: 512-708-8100,
www.aspyr.com
PRICE: \$39.99

REQUIREMENTS: 800MHz G4,
Mac OS 10.2.6, 256MB RAM,
2GB disk space

GOOD NEWS: Compelling story. Cool combat system. Indy character looks like Harrison Ford.
BAD NEWS: Awkward camera view and keyboard controls.

MacAddict RATED
●●●●●
GREAT

ToySight

COOL WEBCAM GAME

ToySight is more than a game, it's a collection of nine games, the likes of which you've never played unless you have a PlayStation2 and ToySight's inspiration, EyeToy. The games are mostly arcade-style, with some supercool surprises like an interactive Laser Harp—but the kicker is that you control the action via a Webcam (not included), which projects your live image into the game. This control scheme makes it tough to sneak in playtime at work unless you're already known for gesticulating wildly at your display, but it's a seriously innovative technology and a hoot to play—at least for a little while.

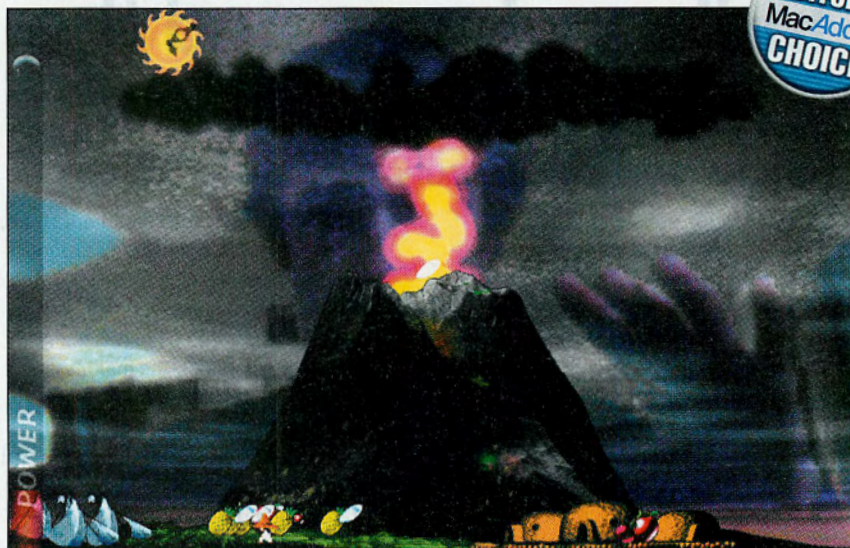
Watching yourself onscreen, you use your hands to navigate the game menus, selecting and activating buttons by pointing your onscreen hands at specific spots on the screen. Similarly, you control game action by moving



In **FreeFall**, collect bonus balloons and hook up with other skydivers on your way to the island target below.

onscreen sliders or tracking a target with one hand, and then clicking a fire button with the other. Mastering the interface takes some practice, and hand-eye coordination is key. A good camera and a room with uniform lighting improve control—don't sit in front of

a bright window. The documentation suggests using Apple's iSight



Either **Volcano God** is the coolest Toy Sight game, or we're egomaniacs. Or both.

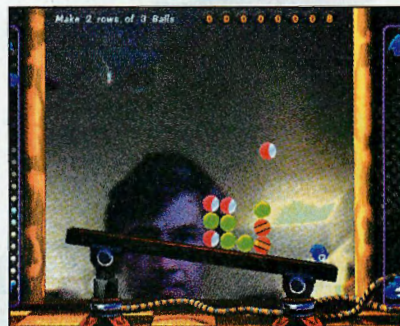
Webcam, but we had similar low-res results with ADS Technologies' Pyro 1394 Webcam (see our review on p46). A high-end DV cam would be ideal.

Our favorite game was Volcano God, in which you use your hands to summon godly powers, such as rain and volcano

demanding game, in which you flap your arms like an owl to try to escape a castle with your pussycat colleague. ToySight also includes some head-to-head action: Tennis Xtreme, which is basically Pong with tanks; Submarine Battle, in which two players lob and dodge missiles back and forth over an island; and Toy Wars, in which each player holds a toy up to the camera (we used our beloved He-Man action figures), and the toys duke it out in a confusing game similar to rock-paper-scissors.

But wait, there's more! Enter Party mode, and groove to dance music while ToySight acts as a video monitor, displaying your Webcam's feed of your dancing friends on the screen, complete with wacky filters such as Wormhole and various glow effects. Finally, our favorite ToySight widget: the Laser Harp—eight virtual harp strings you can play by waving your hands across them on the screen.

ToySight's control scheme is a radically innovative technology but also a very immature one—slight lag and imprecise targeting make some of the games frustrating for the impatient. But it's one of those toys we'd buy on principle even though the games aren't involving enough to inspire us to play for very long. —Niko Coucouvanis



Tilting a plank to stack falling marbles is the easiest game.

eruptions, to control your island natives. Other enjoyable games include The Plank, a Tetris-style, stack-the-falling-marbles game; Marble Factory, a Space Invaders-style shoot-the-invading-alien game; FreeFall, in which you control a skydiver doing target practice; Pie Sight, which involves a cream pie-throwing rampage through a gauntlet of monkeys; and The Owl and The Pussycat, the most—ahem—physically



COMPANY: Freeverse Software
CONTACT: 212-929-3549,
www.freeverse.com
PRICE: \$34.95

REQUIREMENTS: 600MHz G3 or 400MHz G4 or faster, Mac OS 10.1.5 or later, 256MB RAM, 32MB 3D graphics card (nVidia GeForce 2FX or better), video camera or Webcam

GOOD NEWS: Innovative. Fun.
BAD NEWS: Gets old fast.
Imprecise controls.

MacAddict RATED
SOLID

the HotList

THE BEST OF THE BEST FROM RECENT REVIEWS

SHOPPING?
HERE'S WHAT WE
RECOMMEND

NEW THIS MONTH



MacSoft Halo: Combat Evolved

It's finally here! But was it worth the wait? Definitely. *MacAddict* Reviews Editor Niko Coucouvanis wrote, "Halo is an awesome game to play."



Canon EOS Digital Rebel

At last: an affordable digital SLR. *MacAddict* editor and pro photographer Kris Fong was wowed by the Digital Rebel's "sharp, pristine images."

HP Laserjet 1012

Reviews guru Niko Coucouvanis loves to be surprised—and the "quiet and quick printing" of this compact sub-\$200 laser printer put a smile on his face.



SOFTWARE

AUDIO

IK Multimedia AmpliTube Live	\$129.00	Nov/03, p46	Don't think software can replace monster guitar amps? It can.
MOTU Digital Performer 3	\$795.00	Feb/02, p58	This pro-audio app has a great array of features.
Propellerhead Software Reason 2.5	\$449.00	Sep/03, p55	It's earned its rep as the top software sound studio.

GAMES

Aspyr NASCAR Racing 2002 Season	\$39.99	May/03, p57	Realistic NASCAR racing on a Mac? Believe it.
MacSoft Halo: Combat Evolved	\$49.99	Mar/04, p38	It's as awesome as your Xbox buddies said it was.
MacSoft Neverwinter Nights	\$49.99	Jan/04, p54	Flaunt your Dungeons & Dragons skills in the best RPG ever.
MacSoft Unreal Tournament 2003	\$49.99	Oct/03, p44	Blood and gore. Violence. More blood and gore. More violence.

GRAPHICS & LAYOUT

Adobe Acrobat Professional 6	\$449.00	Nov/03, p50	If you're in pro publishing, this is one must-have app.
Adobe InDesign CS	\$699.00	Feb/04, p46	More features and easier navigation makes layout a snap.
Adobe Photoshop CS	\$649.00	Feb/04, p44	Just when you thought Photoshop couldn't get better, it did.
Adobe Photoshop Elements 2	\$99.00	Dec/02, p40	This app has most of Photoshop's power for \$550 less.
FontLab 4.5.2	\$549.00	May/03, p53	The font editor all we type geeks have been waiting for.
Hemera Photo-Objects	\$99.00	Nov/03, p56	50,000 quality images for under a hundred bucks.
Macromedia Dreamweaver MX 2004	\$399.00	Jan/04, p48	Our favorite Web-design tool adds improved CSS support.
Macromedia Flash MX 2004 Professional	\$699.00	Jan/04, p48	Don't know how to write code? Flash MX will do it for you.
Macromedia FreeHand MX	\$399.00	Jun/03, p49	In the race with Adobe Illustrator, FreeHand stays in the lead.

PRODUCTIVITY & UTILITIES

Apple Keynote	\$99.00	Apr/03, p48	This presentation app was built for Mac OS X—and it shows.
Bare Bones Software BBEdit 7.0.1	\$179.00	Mar/03, p52	By far the most powerful text editor money can buy.
Microsoft Office v. X	\$399.00	Feb/02, p42	The 800-pound gorilla of productivity applications.

VIDEO & ANIMATION

Adobe After Effects 6.0	\$649.00	Dec/03, p62	This motion-graphics stud improves its 3D powers.
Apple DVD Studio Pro 2	\$499.00	Dec/03, p58	Apple's essential DVD-burning app is still the one to beat.
Apple Final Cut Pro 4	\$999.00	Sep/03, p44	This kick-ass video-editor now includes four new apps.

HARDWARE

ACCESSORIES

Kensington Expert Mouse	\$127.95	Oct/03, p60	Optical trackball plus scroll wheel equals killer controller.
MacMice The Mouse	\$39.99	Mar/04, p61	This is the mouse that Apple should ship with all its Macs.
Microsoft Wireless IntelliMouse Explorer	\$64.95	Jan/04, p57	A favorite mouse adds horizontal scrolling.
Palm Zire 71	\$299.00	Aug/03, p44	A PDA, digital camera, and MP3 player all rolled into one

AUDIO & VIDEO

ADS Technologies Pyro DV Drive	\$650.00	Jan/04, p55	Record DV video directly to this mobile encoder and drive.
Apple 20GB iPod	\$399.00	Jul/03, p44	The world's greatest MP3 player gets smaller and cooler.
M-Audio Ozone	\$399.95	Feb/03, p59	Need a portable audio/MIDI controller? Look no further.

DIGITAL CAMERAS

Canon EOS Digital Rebel	\$999.00	Mar/04, p48	Finally, an affordable pro-quality digital SLR camera.
Canon PowerShot S230 Digital Elph	\$349.00	Mar/03, p48	A great 3.2-megapixel camera in a tiny, low-cost package.
Nikon Coolpix 5400	\$699.95	Dec/03, p22	This prosumer camera handles well and shoots even better.
Olympus C-4000 Zoom	\$449.00	Jan/03, p52	Great image quality, 4 megapixels, and versatile controls.
Olympus D-560 Zoom	\$229.00	Dec/03, p22	This affordable point-and-shoot cam provides great images.

DISPLAYS

Apple Cinema HD Display	\$1,999.00	Aug/02, p40	This 23-inch, 1,920-by-1,200-pixel beauty inspires lust.
Formac gallery 2010	\$1,199.00	Jan/03, p47	Bright, fast, huge—and it costs only \$.0006 per pixel.

PRINTERS

Brother HL-1870N	\$699.99	Aug/02, p45	Need a sturdy laser printer? This one's a workhorse.
Epson Stylus Photo 2200	\$699.00	Oct/02, p42	The most stunning photo printer we've ever tested.
HP Laserjet 1012	\$199.99	Mar/04, p51	Can a pint-sized, sub-\$200 laser printer be this good? Yep.

STORAGE

LaCie d2 200GB FireWire 800	\$269.00	Jun/03, p47	FireWire 800 speed meets solid-as-a-rock construction.
OWC Mercury Elite Pro	\$289.99	Jul/03, p53	This 180GB FireWire 800 drive outpaces the competition.
Wiebetech Fire800	\$549.95	Dec/03, p53	Hefty 300GB capacity combines with speedy performance.

GOT A QUESTION?
NEED ADVICE?

ask us

WE
CAN
HELP

RESIZING DISK IMAGES

How can I enlarge an existing Mac OS X disk image?

Say you backup data to a disk image and need to expand the space to accommodate more data. You can enlarge your disk image in the Terminal (Applications > Utilities) with the command-line utility `hdiutil`. First, create the initial disk image with Disk Utility in Panther or Disk Copy in Jaguar (both are

`hdiutil resize -size 1g -imageonly (space) ~/Desktop/mybackup.dmg`

Third, resize the disk image's partition with the following command. Since Mac OS X treats disk images just like actual hard disks, you need to format and partition it (with at least one partition). Here, we're resizing the one existing partition to 900MB, which fits inside the 1GB image allocation:

`hdiutil resize -size .9g (space) -partitionOnly (space) ~/Desktop/mybackup.dmg`

The `hdiutil` utility will tell you if the partition is too big, so you can experiment with the most efficient use of space.

DISPLAY DISK SPACE BETTER

Is there a friendlier Terminal command than `df -k -l` for displaying free disk space information?

Yes, you can use the `df -h -l` command. This uses the same display free disk space (`df`) command but uses the `-h` switch for human-readable output (manageable numbers in megabytes and gigabytes rather than in kilobytes) and the `-l` switch for culling information about only locally mounted

disks. Thanks to reader Tim Garrison for this tip.

OLD MAN MIDI

My MIDI keyboard and cables are old.

How can I use them with my PowerBook G4 running Mac OS X?

Get a MIDI-to-USB adapter like Edirol's UM-1SX USB-MIDI Interface (\$49, www.edirol.com) to connect your cables to your Mac's USB port. Also, check out the OS X Audio Web site (www.osxaudio.com) for lots of Mac OS X MIDI software options.



Edirol's MIDI adapter connects your old MIDI cables to your Mac's USB port.

NETWORK BRIDGING CONUSION

My AirPort Base Station wirelessly serves my iBook and PowerBook, and is connected to an Ethernet switch that's hooked up to both my DSL modem and beige Power Mac G3. Why is it that my two notebooks can wirelessly access the Internet and my Ethernet printer but my G3 can't access the Net via Ethernet without switching to PPPoE?

The problem is in the way you have your AirPort Base Station configured. Your Base Station is taking the Internet address from your DSL modem and wirelessly passing IP (Internet protocol address) information to your notebooks. However, it's having trouble passing IP addresses to the Ethernet network so that your G3 can access



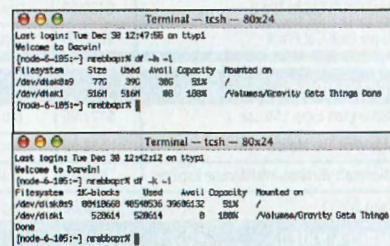
Set up AirPort to route IP addresses to Ethernet- and AirPort-connected Macs.

PHOTOGRAPH COURTESY OF APPLE

If you set the partition size too big, `hdiutil` will let you know.

in Applications > Utilities) and be sure to choose Read/Write from the Image Format pop-up menu.

Second, expand the disk image with the following command (in this example, we're increasing `mybackup.dmg` from 500MB to 1GB):



The `df -h -l` command (top) displays disk information more readably than the `df -k -l` command does (bottom).

quick answers

TO QUICK QUESTIONS

VIEW AVI VIDEO

How can I view AVI files in QuickTime?

You can't. Instead, use MPlayer OS X (free, <http://mplayerosx.sourceforge.net>), which plays QuickTime, DivX, AVI, and other video and audio formats.

CLASSIC PRINTING

I installed Mac OS X and hooked up a new printer. Why can't I print from Classic?

You need to install the Classic version of the printer driver in order to print from Classic mode.



9.2.2 FINALLY

My old iMac has Mac OS 9 installed on it. How do I upgrade to Mac OS 9.2.2?

Download and install the 71MB Mac

OS 9.1 update from Apple's Web site (www.apple.com), then the 82MB 9.2.1 update, and finally the 21MB Mac OS 9.2.2 update. Unfortunately, there's no combo update.

THE MISSING MANUAL

Where can I get another copy of my Mac manual?

Apple keeps manuals available as PDF documents—go to its Apple Manuals Web page (www.info.apple.com/support/manuals.html).



No whining—
anyone
can do this!



It'll take some
effort, but you
can do it.



This stuff's
for the pros.

UNIX UNIVERSITY



TERMINAL SHORTCUTS

Can you help make the Terminal easier to use?

Here are some interface shortcuts:

Don't Type the Path to a File Drag a file from the Finder to the Terminal, and the Terminal will fill in the path for you.

Let the Terminal Autocomplete Your Directory Name Change to the Application directory by typing `cd /A` and then pressing the Tab key. The directory name will autocomplete. If more than one item starts with A, use the first two letters in the command.

Find All Available Commands Type the first letter of a command, then press Control-D. A full list of available commands starting with that character will appear.

Clean Up Your Terminal Window Press Control-L to send the next new command line to the top of the window.

Open the Current Directory in a Finder Window Type `open .` into the Terminal.

the Internet via DHCP. While exact instructions vary depending on what version of the AirPort Admin software you have, make sure you enable DHCP Over Ethernet and Ethernet-To-AirPort Bridging.

JUST ICONS

In Panther, is it possible to have only icons in the left-hand sidebar?



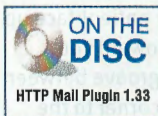
Save screen real estate by viewing only icons in Panther's Finder.

Yes. Drag the divider to the left until it is halfway over the icons, and let go. The divider will resize itself to show just the icons, and when you hover your mouse over the icons, text labels will appear.

HOTMAIL ME

How can I use my free Hotmail email account with Apple Mail?

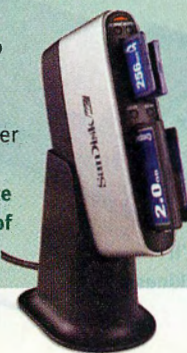
Microsoft's Hotmail uses its own protocol to access mail rather than the standard POP or IMAP formats, so Apple Mail can't access your Hotmail account. Download the open-source HTTP Mail Plugin beta (free, <http://sourceforge.net/projects/httpmail-plugin>), which helps Mail access Hotmail's httpmail servers.



DIGITAL CAMERA MOVIE DOWNLOADS

In Mac OS X, how can I import movie files from of my digital camera?

Use Mac OS X's Image Capture application to download movie files from your camera or use a USB media reader



SanDisk's ImageMate reads eight types of media cards.

such as SanDisk's ImageMate (\$39.99, www.sandisk.com) to mount your camera's media card, and then drag movies to your desktop.

DITCH RED-EYE

Why are the red-eye and crop tools grayed-out in iPhoto?

The edit tools become available only after you use your cursor to select an area of a photo to edit.

This Month



54 Replace an iPod Battery

Apple's new \$99 battery service plan is a big improvement over the original \$249 iPod battery replacement cost. Even better news: You can do the job for even less.

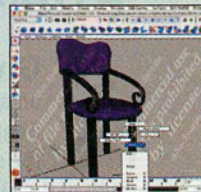
56 Automate Radio Stream Recordings

VCRs, TiVo, TitanTV—these technological marvels ensure you won't miss your favorite TV shows. Now find out how to ensure you won't miss your fave Internet radio shows either.



58 Model 3D Objects in Maya

This month, check out a special version of Maya—the big daddy of 3D modeling and animation packages—for free (on the Disc!). For those who aspire to generate CG as seen in *Lord of the Rings* and *Spider-Man*, here's a crash course in modeling to get you started.



Seven years of handling tech support for Apple, Power Computing, and a Texas school district have given Buz Zoller Mac superpowers.

Submit technical questions or helpful tips directly via email (askus@macaddict.com) or c/o MacAddict, 150 North Hill Dr., Brisbane, CA 94005.

PHOTOGRAPH COURTESY OF SANDISK

Replace an iPod Battery

by Kris Fong

TRICKY

WHAT YOU NEED

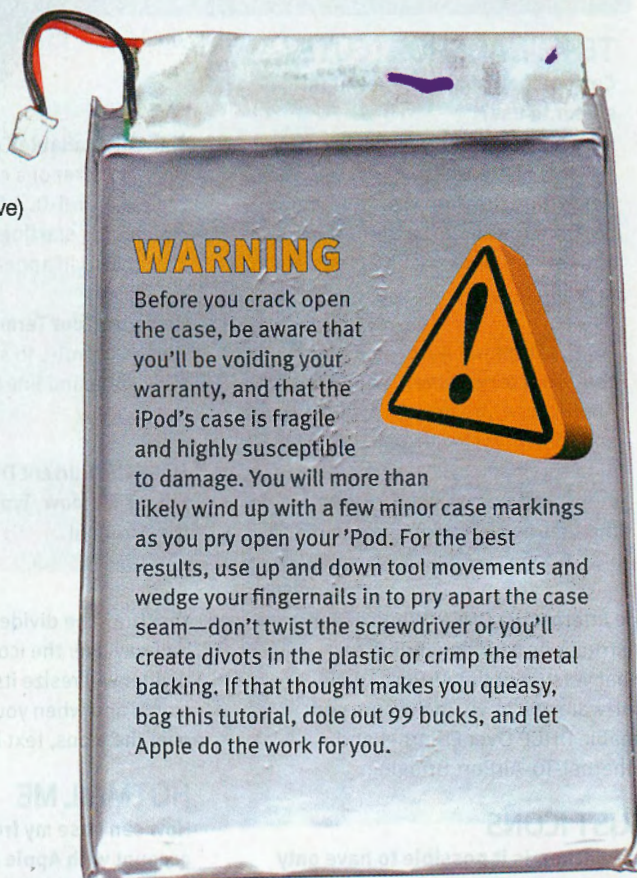
- iPod (any full-size model) with a battery on the fritz (\$299, \$399, or \$499, www.apple.com)
- iPod battery (available at Laptops for Less, \$49, www.ipodbattery.com)
- Mini flathead screwdriver (comes with the battery above)
- Tweezers (if you've got fat fingers)
- Ruler (if you have a newer iPod)

As some of the fortunate few who got original iPods on the day they were announced, we were thrilled. But after a hundred some-odd charges over the course of a couple years, our little 'Pod pal started sputtering out a few songs before falling silent (you can recharge an iPod's lithium-polymer battery about 500 times). Originally, the only way you could replace a dead battery was to pony up the whopping \$249 Apple charged for all iPod repairs. Thankfully, the company brought the price down to a more reasonable \$99 for battery service, though you're obliged to part with your 'Pod for the fix. But there's an even less expensive way to do the job: With a little effort, you can replace the battery yourself for half the cost. Here's how.

Original iPods

1 Give It a Face Lift Place your patient face up on a sturdy table, with the top turned toward you. Gently wedge the screwdriver into the groove between the silver back and plastic front in the corner to the right of the FireWire port. Using an up-and-down motion, carefully work your way down the side, pushing inward to unfasten the five side clips until you get to the bottom (it's a bit tight down there, so be extra careful). Once there, the face should loosen—if it doesn't, continue around the corner, and unclip the two bottom clips. Then lift off the face and place it face down on your surface.

Once you unfasten the five side clips, you're ready to begin the face lift.



WARNING

Before you crack open the case, be aware that you'll be voiding your warranty, and that the iPod's case is fragile and highly susceptible to damage. You will more than likely wind up with a few minor case markings as you pry open your 'Pod. For the best results, use up and down tool movements and wedge your fingernails in to pry apart the case seam—don't twist the screwdriver or you'll create divots in the plastic or crimp the metal backing. If that thought makes you queasy, bag this tutorial, dole out 99 bucks, and let Apple do the work for you.



PHOTOGRAPHY BY MARK MADEO

2 Free the Battery All of your iPod's components are attached to the face—the battery is that flat, silver rectangle staring back at you. However, it's stuck to the hard drive with two strips of adhesive rubber shock-protection pads. Use the screwdriver to gently unstuck the battery from these rubber shock strips (don't remove them), taking care not to rip out the connection cord located in the top corner directly below the iPod's Hold switch. Once it's free, flip the battery out of the case and onto your surface.

Though it's tactually kind of fun, avoid touching the sticky rubber strips with your fingers, or they'll lose their stickiness.



3 Do the Switcheroo Using a pair of tweezers (or your fingers, if they're small), *gently* pull up on the battery's white power connector to disconnect it. Then take your new battery and carefully plug its power connector into place. Flip it over so it aligns with the hard drive and rubber strips, and press down to affix it. Then snap the backing back onto the front, juice up your player (Laptops for Less recommends at least three hours of charging before the first use), and enjoy your 'Pod's new lease on life.

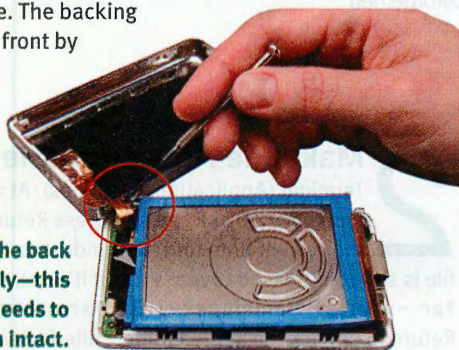
Before cramming in the battery, make sure you've got the connector positioned properly—the red wire should be nearer the 'Pod's top than the black one.



Dockable iPods

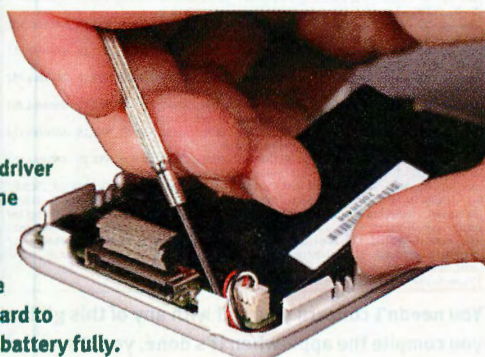
1 Pry Open Your 'Pod Place your iPod face down on a sturdy table, with either the right or left side toward you. Using a ruler, measure 6 centimeters from the top of the 'Pod, and then gently wedge the screwdriver into the seam between the sliver back and plastic front at that point. From there, begin prying the side loose, using an up-and-down motion as you work your way along the seam and pushing inward to unfasten the five side clips. Work your way around the bottom until the back casing pops loose. The backing is tethered to the front by a short cable, so carefully lift off the back and flip it over next to the face.

Don't yank off the back cover zealously—this fragile cable needs to remain intact.



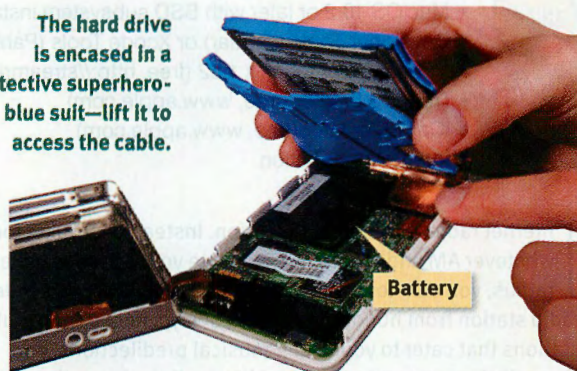
3 Bust Out the Battery You should now see a 1-by-2-inch black rectangular block—that's the battery, which is tethered (via a short cable) to the motherboard at the bottom corner of the iPod. Gently slide the screwdriver head beneath a side, lift up the battery, and then use the screwdriver to snake out the extra cable from under the motherboard and swing out the battery. Next, use a pair of tweezers or tiny fingers (if you have 'em) to pull up the white power connector and fully disconnect the battery.

Use the screwdriver to pull out the bit of extra cable stashed beneath the motherboard to remove the battery fully.



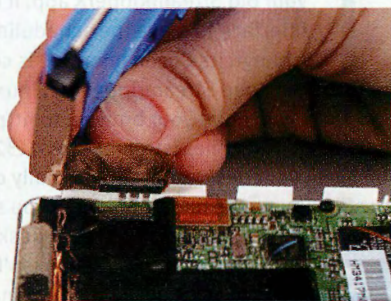
2 Detach the Drive Unlike the original iPod battery's full-frontal appearance, the newer 'Pod's battery is sandwiched beneath the hard drive, so you have to remove the drive to access the battery. The drive is encased in a protective blue rubber sheath—from the top, gently lift up the drive and the blue rubber flap beneath it (the bottom is tethered via a ribbon cable) to expose the copper ribbon cable tab. Then carefully pull up on this tab to disconnect the cable from the motherboard, and remove the drive.

The hard drive is encased in a protective superhero-blue suit—lift it to access the cable.



4 Repack and Rejoice Take your new battery and plug its power connector into the empty socket—be sure to position it so that the red wire is closest to the dock slot. Tuck the excess cable back underneath the motherboard using the screwdriver, and then place the battery in its compartment. Plug the hard drive back into the motherboard, stack it back onto the 'Pod, and snap the back casing onto the front. Then charge up the battery for at least three hours, and rock on.

Snap the hard drive's cable connector down into the motherboard, and give it a gentle—gentle!—tug to make sure it's connected.



Though *MacAddict* Senior Editor Kris Fong dissected frogs, cow eyeballs, and a pig in school, nothing made her as squeamish as she felt busting into Editor in Chief Rik Myslewski's new iPod.



Automate Radio Stream Recordings

by Paul Yoon



WHAT YOU NEED

- Mac OS 10.2 or later with BSD subsystem installed (\$129, www.apple.com)
- Developer Tools (Jaguar) or Xcode Tools (Panther) installed (packaged with OS X)
- Streamripper for *nix 1.32 (free, <http://streamripper.sourceforge.net>)
- iTunes 3 or later (free, www.apple.com)
- iCal 1.5 or later (free, www.apple.com)
- Internet connection

Internet radio was a great invention. Instead of settling for whatever AM and FM signals infiltrate your 50-or-so-mile radius, you can now tune in to your favorite low-watt college radio station from hundreds of miles away, choose from multiple stations that cater to your exact musical predilections, and generally keep up with what the kids are listening to these days.

Even if you're stuck at work, sound asleep, or otherwise incapacitated, you can still catch your favorite radio shows TiVo-style. A terrific shareware app called RadioLover will do the job, but if you're a do-it-yourselfer looking for a way to do the feat on the cheap, read on. We show you how to automate MP3 radio stream recordings using an open-source program called Streamripper, so you can enjoy shows at your leisure.

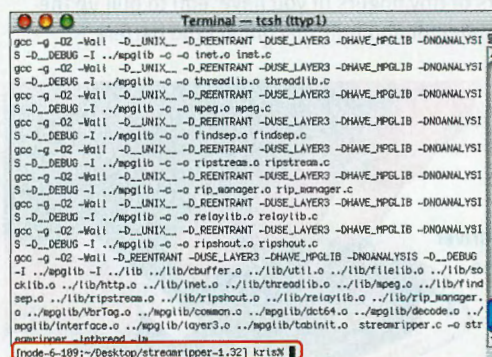
1 Snag Streamripper Wait! Don't whip out your old StreamRipperX app. It lacks a command-line interface to make the scheduling part of this work (though its Cocoa interface is certainly prettier). Instead, you need Streamripper for Linux, FreeBSD, BeOS, and Mac OS X. Point your browser to <http://streamripper.sourceforge.net/files/streamripper-1.32.tar.gz> to download the file to your desktop (if you normally download to a different location, move the file—or folder, if you set Stuffit Expander to automatically expand files—to your desktop after downloading).



Because this version isn't a Cocoa app, you need to set it up via the Terminal to make it work in OS X.

If you don't set Stuffit Expander to automatically decompress files, use the Terminal to unpack it.

2 Make the App X-essible Launch the Terminal (Applications > Utilities). At the prompt, type `cd ~/Desktop` and press Return to change the current directory to your desktop. If the file is still compressed (bypass this if it's not), type `tar -xzf streamripper-1.32.tar.gz` and press Return to unpack the app—a folder called *streamripper-1.32* appears on your desktop. Move to this new directory (folder) by typing `cd streamripper-1.32` in the Terminal and pressing Return. Currently, there's no Streamripper app in this folder—you need to compile the binaries to create an OS X-compatible version. To do this, type `./configure` and press Return to gather the right info. When it finishes (you'll see a prompt), type `make` and press Return to compile the program (a bunch of gibberish will fly by in the Terminal). When it's done, you'll see another prompt.



You needn't concern yourself with any of this gibberish when you compile the app—when it's done, you'll see a prompt.

Model 3D Objects in Maya PLE

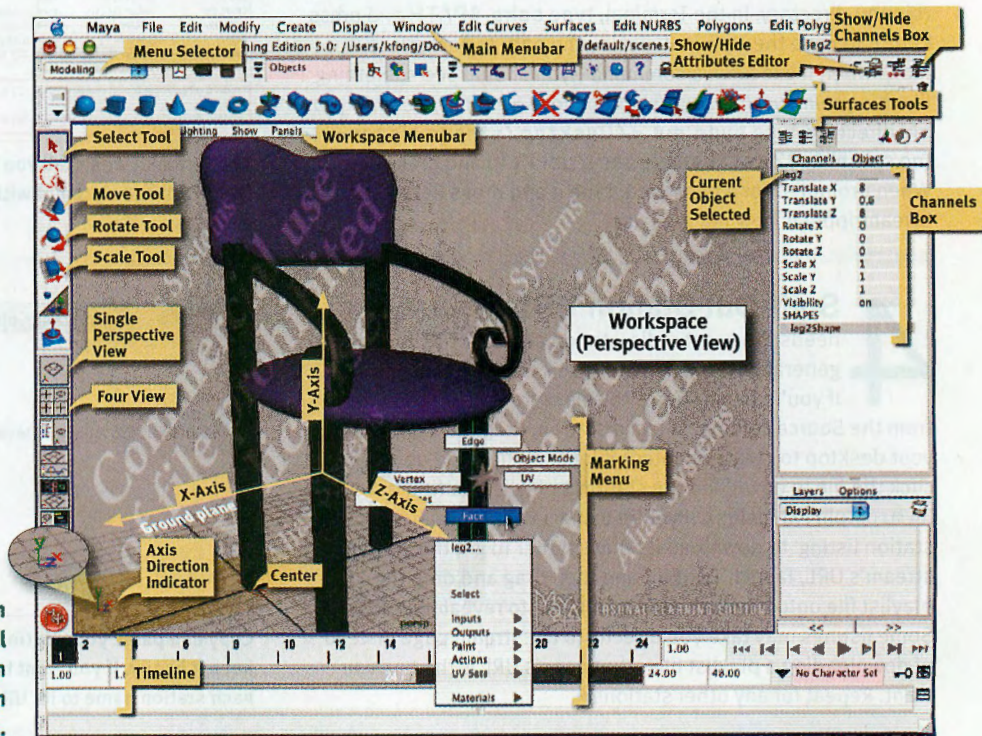
by Kris Fong

TRICKY

WHAT YOU NEED

- G4 Mac or faster with 512MB RAM
- Mac OS 10.2.4 or later
- Maya 5.0 PLE
- Three-button mouse or two-button mouse with a clickable scroll wheel

Can't have something in real life? Build it in a virtual world. Anything you can imagine, you can create with Maya and Maya PLE.

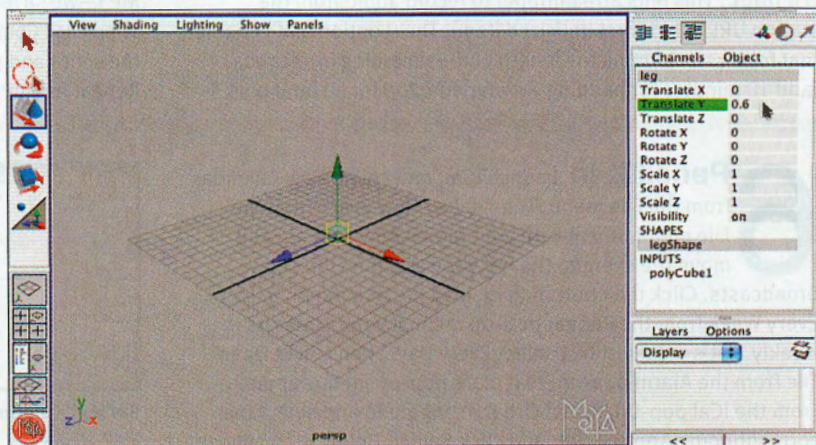


The Lord of the Rings, Spider-Man, The Matrix, and Gladiator—computer-generated scenes in these big-budget blockbusters were brought to life with Alias Wavefront's beaucoup-bucks 3D modeling and animation program, Maya (\$1,999, www.alias.com). But if you don't have the cash to flash, we have a full special version of Maya—dubbed Maya PLE (personal learning edition)—on this month's Disc for free!



PLE features all the tools found in Maya proper, but it puts mondo watermarks on the output, saying that commercial use is prohibited (there are a few output and rendering limitations too). That means you can use and learn the full Maya package without dropping a dime, and then upgrade when you're ready to go Hollywood. To get you started, here's how to use some of Maya's 3D modeling tools to create a 3D chair. To learn more, check out the tutorials included with this app.

1 Start at Square One Launch Maya to open a new project window. To create the chair's legs, start with a cube. From the menu selector pop-up menu, select Modeling. Then select Create > Polygon Primitives > Cube from the main menubar to create a small cube smack in the center of the workspace. In the Channels box, rename pCube1 as leg. Then select the move tool (three cones with an arrow icon)—three directional arrows will sprout out of the cube. Drag the green-arrow (y-axis) handle (it'll turn yellow when selected) upward until the Translate Y value reads 0.6 in the Channels box—or just type 0.6 for the Translate Y value and forget about dragging. Your cube should now be sitting on the ground surface of the 3D plane.



To move an object, either use the arrow handles to move along the x-, y, or z-axis, or enter a Translate value for any axis.

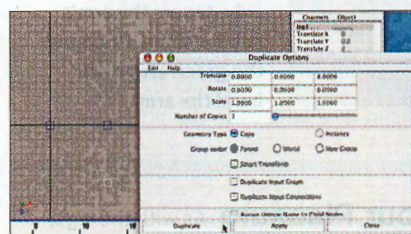
2 Get a Leg Up Now, turn the cube into a chair leg. From the workspace menubar, select **Shading > Smooth Shade All**. Then right-click the cube and select **Face** from the marking menu. To get a better view, dolly into the workspace by holding down the Option key and the mouse's right button, and mousing to the right; to dolly out, mouse to the left. To track up, down, left, or right, hold down the Option key and the mouse's middle button, and mouse in the desired direction. To tumble the view—sweeping your point of view around the object—hold down Option and the left mouse button, and mouse in any direction. Then select the select tool (arrow icon) and click the small square on the cube's top. Select **Edit Polygons > Extrude**



Face from the main menubar. Drag the blue-arrow (x-axis) handle upward until your cube looks like a leg post.

Use Extrude Face to quickly grow objects from a single face.

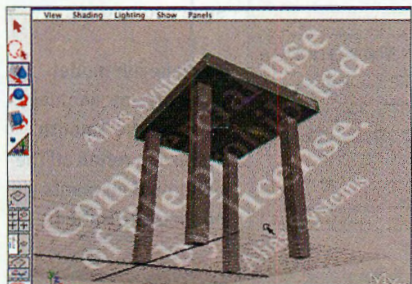
3 Spawn Clones Turn one leg into four by duplicating it. Right-click your mouse, select **Object Mode** from the marking menu, and select the leg in the workspace. Click the four-view button (icon containing four boxes) to display four workspace views: Top, Persp (perspective), Front, and Side. Mouse over the Top view and press the spacebar to display this view only. From the main menubar, select **Edit > Duplicate > small box icon**; in the resulting **Duplicate Options** window, select **Reset Settings** from the window's Edit menu. Type **8** in the first box (x-axis) to the right of **Translate** and click **Duplicate** to create a clone. Shift-click the original to select both legs, and then select **Edit > Duplicate > small box icon**. Reset the settings, type **8** in the third box (z-axis) to the right of **Translate**, and click **Duplicate** to create two more legs. Then



click the single perspective view button (diamond icon).

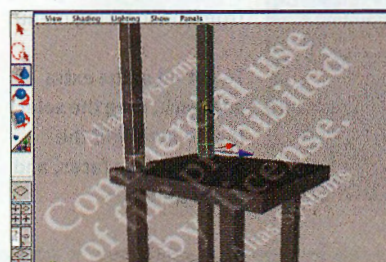
Use the Duplicate feature to clone creations quickly.

4 Have a Seat For the seat, select **Create > Polygon Primitives > Cube > small box icon** from the main menubar to open the Options window. Select **Reset Settings** from the window's Edit menubar. Then type **10** for Width, **1** for Height, **12** for Depth, and click **Create**. In the Channels box, rename **pCube1** as **seat**. Tumble the view so that the z-axis faces you. Then select the move tool and position the seat so that it sits atop the four legs with a 1-unit overhang on each side of the chair (along the x-axis), a 1-unit overhang on the back, and a 3-unit overhang in the front (tumble the view to check for accurate placement).



We tumbled the view at all angles to ensure our seat was really seated on the four chair legs.

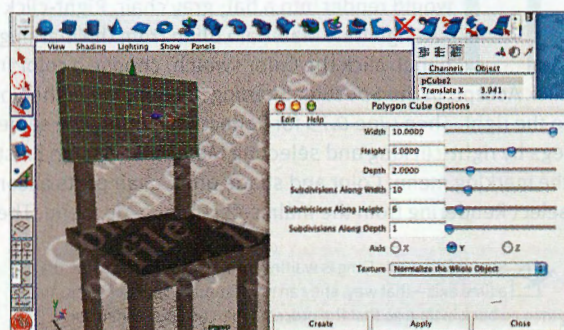
5 Send in More Clones To create the chair backing, clone two legs to create posts for the seatback. Using the select tool, click the back left leg that stands at the center of the workspace (the original), hold the Shift key, and click the back right leg next to it along the x-axis to select both legs. Select **Edit > Duplicate > small box icon**, reset the settings, type **8** in the second box (y-axis) to the right of **Translate**, and click **Duplicate**. Then select the move tool, and move the two posts on top of the seat towards the rear (you may need to dolly out and readjust the view). Tumble the view to make sure everything's connected and nothing's floating.



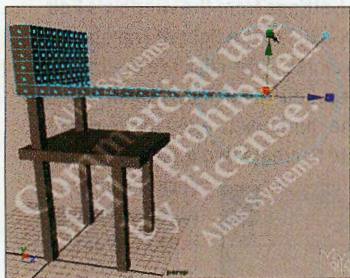
Dolly in your camera view to get a closer glimpse at your work—you don't want any parts to look like they're floating on air.

6 Create Back Support For the seatback, start with a cube shape, then divide it into multiple segments so you can ultimately sculpt some fancy armrests. From the main menubar, select **Create > Polygon Primitives > Cube > small box icon** to open its Options window. Reset settings and then type **10** for Width, **6** for Height, **2** for Depth, **10** for Subdivisions Along Width, and **6** for Subdivisions Along Height. Click **Create**. Use the move tool to place the piece so its top covers the post tops and sits evenly between them.

To create armrests, we first created a cube shape with multiple subdivisions for tweaking later.

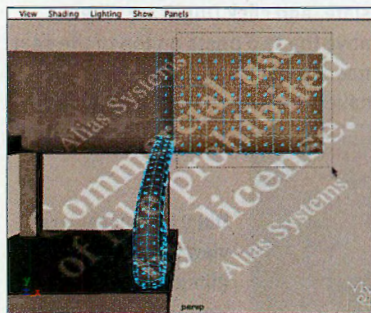


7 Extend an Arm and Squeeze Right-click the seatback and select Face from the marking menu. Click the front-facing, bottom-left square of the seat back and from the main menubar, select Edit Polygons > Extrude Face > small box icon. In the resulting window, reset settings, type 15 for Divisions, and click Extrude Face. Drag the blue-arrow handle to create an armrest that's about double the length of the seat's depth. Then drag the green-cube handle down to taper the arm. Then drag the green arrow down a bit to slope the arm.



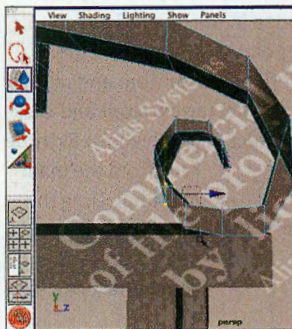
Dragging the green cube tapers the arm's subdivisions. Dragging the green arrow will bend the arm.

9 Double Your Pleasure As with the legs, duplicate the chair arm for the opposite side. Right-click the arm and select Face from the marking menu. Adjust the view so that you're looking at the arm from the side, and then select the entire arm. From the main menubar, select Polygons > Smooth. Right-click the arm and choose Object Mode from the marking menu. Then select Edit > Duplicate > small box icon. In the resulting window, reset the settings, type 9 in the first box to the right of Translate, and click Duplicate; a second arm and seatback appear. Right-click the second seatback and select Face from the marking menu. To delete it, view the chair straight on, select the extra seatback, and press Delete. Right-click and choose Object Mode from the marking menu.



To get rid of the extra seatback, drag the select tool to highlight the extra polygon faces, and press Delete.

8 Do Arm Curls Tumble to get a side view of the arm and dolly in. Right-click the arm and select Vertex from the marking menu. Then drag a selection over the four vertices at the arm's end—the points will turn yellow when selected. Select the move tool and use the green-arrow handle to drag the end segment downward. Select



the neighboring set of vertices by dragging a selection, and move this segment downward to start a curve. Move the blue-arrow handle, shortening or lengthening segments to tighten the curl. Repeat with the other segments until you get a scroll at the arm's end.

Dolly in close so you can accurately select vertices.

10 Sleekify the Architecture The arms are curvy, but the rest of the chair is boxy. To soften the edges, select the seatback (which also selects one arm) and from the main menubar, select Edit Polygons > Sculpt Polygons Tool > small box icon. In the resulting panel, click Reset Tool. Then select an Operation (Push, Pull, Smooth, or Erase), and click the areas you want to sculpt, such as the seatback's top. Experiment with these tools to understand what each does. We used Push, Pull, and Smooth to modify the seatback. We also rounded the shape of the seat by selecting Polygons > Smooth three times from the main menubar, and then used the scale tool (box with arrows icon) to resize it (you can

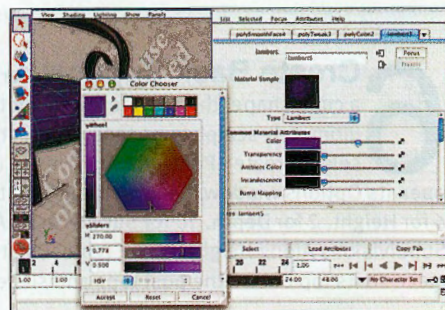


leave it square if you prefer). When finished, save your model.

To make our model more organic-looking, we used the Smooth feature to refine all the polygonal elements we pushed and pulled.

11 Finishing Touches Your model is complete, but if left alone, it would render into a flat, gray chair. Right-click any leg and select Materials > Assign New Material > Blinn from the marking menu. In the resulting panel, click the Color swatch, choose a color from the Color Chooser, and click Accept. In the Specular Shading section, move the Specular Roll Off slider fully to the right. Then type 0.75 for Reflectivity. Apply the same color shading for the other legs by right-clicking and selecting Materials > Assign Existing Materials > blinn1 from the marking menu. Color and shade other chair parts accordingly. When finished, select Rendering from the main selector pop-up menu. Then select Render > Render

Current Frame from the main menubar to render your model in all its tiny, watermarked goodness.



For our seat and seatback, we used the Lambert material, which has a smooth, matte finish.

Senior Editor Kris Fong is waiting for a 4D program that factors in a time axis—that way, she can model and animate objects, and then go back in time so that the process won't be such a time suck.

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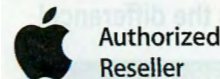
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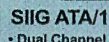
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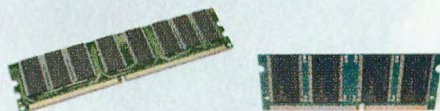


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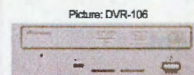


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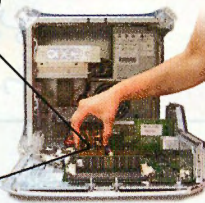
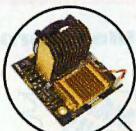
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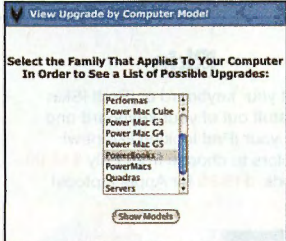


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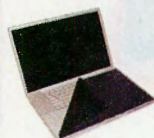


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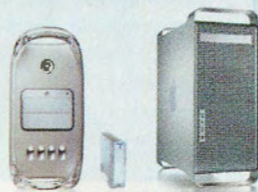
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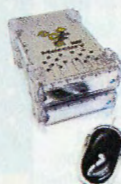
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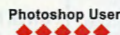


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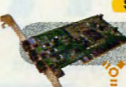
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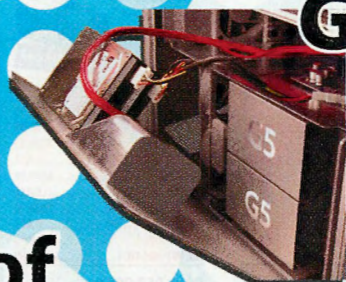
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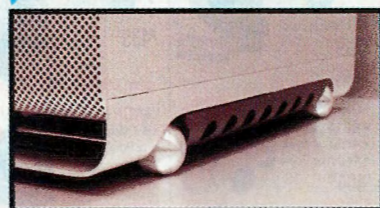


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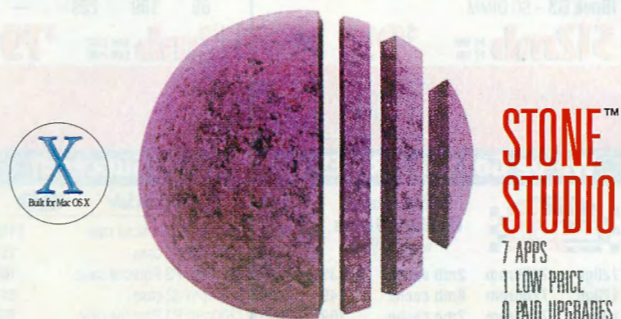
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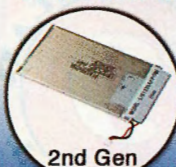
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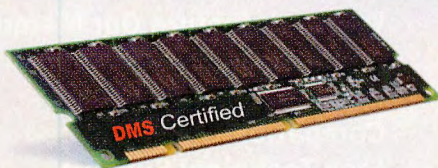
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LETTERS

ONE MORE REASON TO BOYCOTT THE UGLY

The story "The Good, the Bad, and the Ugly" on Unreal Tournament mods (*Get Info*, Feb/04, p14) was disturbing. On the lower-left corner of the page you ran a quick review, graphic, and Web address of an Unreal Tournament mod about the Twin Towers on 9-11. While you describe it as ugly, I have to protest the decision to include it at all. As a parish priest and a native New Yorker affected by the events of 9-11, let me assure you this was no game.—*Fr. Robert Dunn*

We in no way take the events of 9-11 lightly and were ourselves deeply affected. However, it's our job to present all the news—good, bad, and ugly.—*Max*

STARBUCKS

I resent the suggestion that Mac addicts buy their coffee from Starbucks ("Twenty Years of Macintosh," Jan/04, p42). All Starbucks' espresso machines are automated. The barista does nothing but push buttons. There is no art or soul in the product. Mac users are all about art and soul and should drink espresso that reflects this aesthetic.—*Larry Larsen*

MAC OSCILLATOR

My 1GHz Power Mac G4 whines at the annoying frequency of 1134.4 hertz. How in all my geekiness did I figure that out? Well, there's a cool little Mac OS X audio test oscillator called SignalSuite (\$24.95, www.partnersinrhyme.com). I tuned the oscillator, and then ran the Mac audio output through my hi-fi



speakers to identify the offending tone.—*Rick*

DANGEROUS COMMAND SAGA STILL CONTINUES

In February *Letters* (*Log Out*, Feb/04, p95), *MacAddict* reader Jen corrected the *Ask Us* columnist (Aug/03, p59), explaining that `rm -r -f /` not `rm -r /` is the most dangerous command in Unix. You can, however, make it even more dangerous. The command `rm -r -f -P /` will not only erase your entire system, but also overwrite all files with a pattern three times so that no disk recovery guru could ever recover the data.

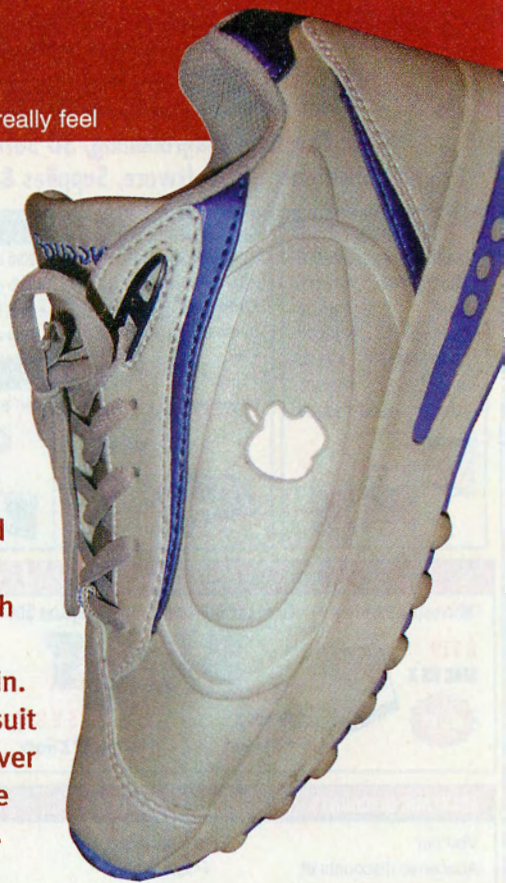
—*Sky O'Mara*

Do not, we repeat, do not try these commands at home. We print them for

RECENTLY SIGHTED

My wife's sister has the coolest sneakers, made by a China-based company called Jinpingguo, which means golden apple in Mandarin. Imagine the lawsuit if the company ever tried to sell these shoes in the U.S.

—*Gene Sweeney*



the same reason you rubberneck at bad car wrecks.—*Max*

iCHANUKAH AV

This year my family celebrated a coast-to-coast Chanukah with the help of iChat AV and the iSight FireWire Webcam. My brother's family gathered at my nephew Jason's apartment in Los Angeles, CA, while my parents and family congregated here in Cumberland, MD. Our absent son is in the Peace Corps and is getting an iSight for Chanukah this



iSight works for Kwanzaa and Christmas too.

year, so we hope to see more of him during his two years in Tanzania. Perhaps next year we can do a three-way global Chanukah video conference.—*Doug Schwab*

Perhaps next year you can

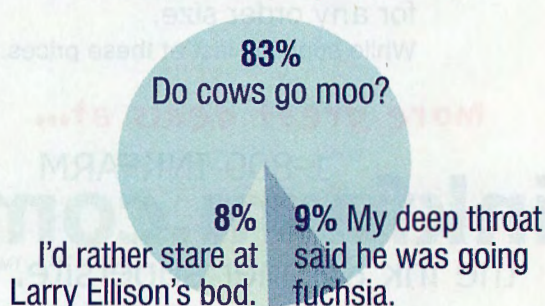
Survey Says

During the month before the annual Expo extravaganza, we asked you about your plans. Check www.macaddict.com each month for a new online poll.

Do you plan on going to Mac Expo 2004 in San Francisco?



Will Steve Jobs wear jeans and a black turtleneck at his Keynote Address?



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LOG OUT 79

also share latkes and
sufganiyot after Steve
introduces the iTransporter.
—Max

YOU HEARD IT HERE FIRST

As I was browsing at my
local bookstore today, the
Knoph hardcover version
of Christopher Paolini's
fantasy novel *Eragon* caught
my eye. I remember your
article (*Get Info*, Apr/02,
p15) about this teenage
author who wrote, edited,
and self-published his book
all on his Mac. It pleased
me greatly to discover that
the author found a publisher
and is working on a trilogy.
This story is certainly an
inspiration. Thank you for
bringing me word of it back
in the day.—Daven "Nevada
Dav" Mathies

GIVE US THE BOOT

It's too bad that your
Maxtor's OneTouch 250GB
FireWire Drive review
(Feb/04, p53) dwelled on
the complexities of creating
a bootable backup drive.
You could have just told
readers to use Bombich
Software's Carbon Copy
Cloner (donationware,
www.bombich.com) to
clone their computer's
startup volume to the
Maxtor backup drive. I
partitioned my OneTouch,
used Retrospect Express
to backup files to my
Documents partition, and
cloned the OS X start-up
partition—I had my entire
Power Mac G5's drive
backed up in a matter of
minutes.—John Van't Land



Thanks
for the tip,
John. By
the way,

Maxtor recently released a
software patch that makes its
drives bootable—just go to
<http://maxtor.custhelp.com>
and type *Mac Boot* in the
Search field.—Max

POSTPONING PANTHER

Thank you so much for
"The Trouble With Panther"
(*Get Info*, Feb/04, p10). I
appreciate *MacAddict's*
honesty in describing the
initial shortcomings of Mac
OS 10.3. I realize that OS X
is a major and much-needed
improvement for the Mac and
that reluctant OS 9ers are
becoming a rare breed. I will
make the jump to OS X, but
not before it is a safe jump
forward.—Steve Holtz

THE POWER OF PURPLE-GREEN

In late 1996, my dad and I
saw the most garish purple-
and-green magazine. The
resulting subscription
to *MacAddict* has more
than paid for the price of
admission. I've gone from



being a fourth-grader to
being an eleventh-grader who
runs an online Web comic and
is working towards a career
in animation. The tools you
provide free on the Disc have
been invaluable to me. Keep
it up.—Nathan Koga

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Deadline for entry: April 30, 2004.
Contest results will appear in our Aug/04 issue.

Contest Rules The judges will be *MacAddict* editors and will base their decision on 33 percent humor, 33 percent originality, and 33 percent creativity. All entries must be received no later than April 30, 2004, with the winner announced around August 2004. By entering this contest, you agree that Future Network USA may use your name, likeness, and Web site for promotional purposes without further payment. All prizes will be awarded, and no minimum number of entries is required. Prizes won by minors will be awarded to their parents or legal guardians. Future Network USA is not responsible for damages or expenses the winners might incur as a result of this contest or the receipt of a prize, and winners are responsible for income taxes based on the value of the prize received. A list of winners may also be obtained by sending a stamped, self-addressed envelope to Future Network USA c/o *MacAddict* Contest, 150 North Hill Dr., Brisbane, CA 94005. This contest is limited to residents of the United States. No purchase necessary, void in Arizona, Maryland, Vermont, Puerto Rico, and where prohibited by law.

Winner!

Congratulations to **John Buell**,
whose caption for this picture
won him three USB optical
mice from Logitech (\$114.85
value, www.logitech.com).

*Steve Ballmer is Microsoft's portly,
balding CEO.



Only Ballmer's*
hairstylist knows
for sure.

PHOTOGRAPH BY MARK MADEO

APPLE PRODUCT BACKLASH

Not Everyone Is Pleased
with Apple's Latest

The recently introduced iPod mini and GarageBand are grabbing headlines—though not necessarily in ways Apple envisioned.

**If the colors of
the new iPod mini
remind you of
Easter eggs, you're
not alone.**

Today's
Weather
60-Foggy

San Francisco Times

LATE
EDITION

IT WAS A BAD DAY for White House Press Secretary Scott McClellan. Squirming under withering questioning from his ever-determined adversary, Helen Thomas, a grim-faced McClellan reluctantly admitted yesterday that 1,000 colorful iPod mini MP3 players were accidentally substituted for eggs in this year's traditional White House Easter Egg Roll.

"The cheerful colors of the iPod mini may have engendered misinterpretation by those tasked with Egg Roll-related program activities," McClellan said.

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BOTCHED WHITE HOUSE EASTER-EGG HUNT BALLOONS U.S. DEFICIT



At \$249 per "egg," someone's got some 'splainin' to do.

Today's
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LATE
EDITION

RECORD EXECs CRY FOUL!

RIAA MOVES TO OUTLAW APPLE'S GARAGEBAND,
CITING INFRINGEMENT



Malibu real estate prices plummet as GarageBand bankrupts music-industry execs.

It's been a bad year for the Recording Industry Association of America. Illegal music downloads are skyrocketing, RIAA lawsuits against Kazaa users led to stinging public condemnation, and Apple's GarageBand music-creation software has put the ability to create quality music in the hands of everyone. The RIAA is striking back, however. According to RIAA spokesperson Britney Aguilera, "GarageBand is a clear violation of the recording industry's God-given right to control musical creativity in all its forms. Besides, if it catches on, how do you expect Mitch Bainwol and Cary Sherman (RIAA's CEO and President) to maintain their opulent lifestyles?"

**Apple's
GarageBand
strikes terror into
the hearts of
music-industry
insiders.**

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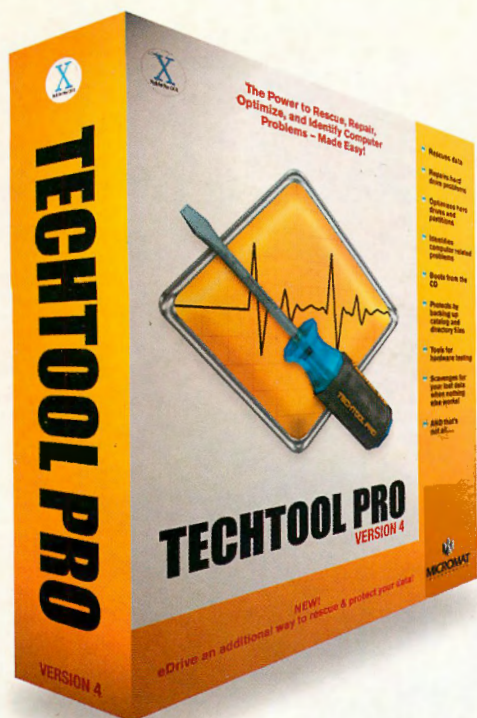
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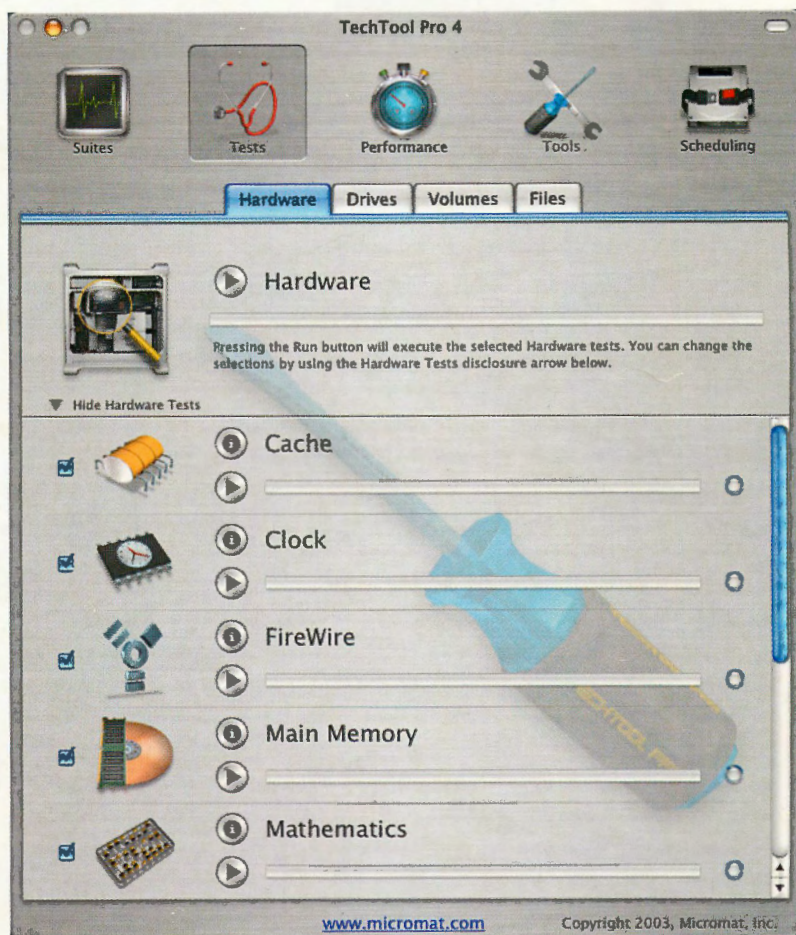
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